

AD-A211 347

WRDC-TR-89-2062

HISTORY OF THE GAS TURBINE ENGINE IN THE  
UNITED STATES: BIBLIOGRAPHY



James J. St.Peter  
Universal Energy Systems, Inc.  
4401 Dayton-Xenia Rd.  
Dayton, OH 45432

DTIC  
ELECTE  
AUG 17 1989  
S D es D

May 1989

Final Report for the Period July 1987 to August 1988

Approved for public release; distribution is unlimited

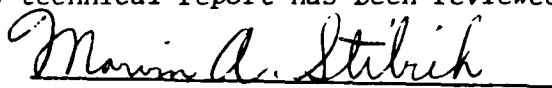
AIR FORCE AERO PROPULSION AND POWER LABORATORY  
WRIGHT RESEARCH AND DEVELOPMENT CENTER  
AIR FORCE SYSTEMS COMMAND  
WRIGHT-PATTERSON AIR FORCE BASE, OH 45433-6563

NOTICE

When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data, is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture use, or sell any patented invention that may in any way be related thereto.


This report has been reviewed by the Office of Public Affairs (ASD/PA) and is releasable to the National Technical Information Service (NTIS). At NTIS, it will be available to the general public, including foreign nations.

This technical report has been reviewed and is approved for publication.

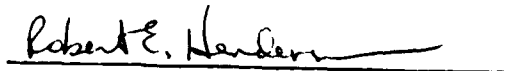


MARVIN A. STIBICH  
Project Engineer  
Compressor Research Group  
Technology Branch  
Turbine Engine Division  
Aero Propulsion & Power Laboratory

FOR THE COMMANDER



FRANCIS R. OSTDIEK  
Chief, Technology Branch  
Turbine Engine Division  
Aero Propulsion & Power Laboratory



ROBERT E. HENDERSON  
Deputy for Technology  
Turbine Engine Division  
Aero Propulsion & Power Laboratory

If your address has changed, if you wish to be removed from our mailing list, or if the addressee is no longer employed by your organization please notify WRDC/POTX, W-PAFB, OH 45433 to help us maintain a current mailing list.

Copies of this report should not be returned unless return is required by security considerations, contractual obligations, or notice on a specific document.

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE				Form Approved OMB No. 0704-0188	
1a. REPORT SECURITY CLASSIFICATION Unclassified			1b. RESTRICTIVE MARKINGS none		
2a. SECURITY CLASSIFICATION AUTHORITY N/A			3. DISTRIBUTION / AVAILABILITY OF REPORT Approved for public release; distribution is unlimited		
2b. DECLASSIFICATION / DOWNGRADING SCHEDULE N/A					
4. PERFORMING ORGANIZATION REPORT NUMBER(S)			5. MONITORING ORGANIZATION REPORT NUMBER(S) WRDC-TR-89-2062		
6a. NAME OF PERFORMING ORGANIZATION Universal Energy Systems, Inc.		6b. OFFICE SYMBOL (if applicable) N/A	7a. NAME OF MONITORING ORGANIZATION Aero Propulsion and Power Laboratory (WRDC/POTX) Wright Research and Development Center		
6c. ADDRESS (City, State, and ZIP Code) 4401 Dayton-Xenia Rd. Dayton OH 45432			7b. ADDRESS (City, State, and ZIP Code) Wright-Patterson AFB OH 45433-6563		
8a. NAME OF FUNDING / SPONSORING ORGANIZATION		8b. OFFICE SYMBOL (if applicable) WRDC/POTX	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER F33615-85-C-2575, Task 13		
8c. ADDRESS (City, State, and ZIP Code) WRDC/POTX Wright-Patterson AFB OH 45433-6563			10. SOURCE OF FUNDING NUMBERS		
			PROGRAM ELEMENT NO. 62203F	PROJECT NO. 3066	TASK NO. 12
11. TITLE (Include Security Classification) History of the Aircraft Gas Turbine Engine in the United States: Bibliography.					
12. PERSONAL AUTHOR(S) St. Peter, James J.					
13a. TYPE OF REPORT Final		13b. TIME COVERED FROM Jul 87 TO Aug 88		14. DATE OF REPORT (Year, Month, Day) 88 May 11	
15. PAGE COUNT 165					
16. SUPPLEMENTARY NOTATION					
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number) Aircraft Gas Turbine Gas Turbine Bibliography Propulsion		
FIELD	GROUP	SUB-GROUP			
21	05				
19. ABSTRACT (Continue on reverse if necessary and identify by block number) A Bibliography of aircraft gas turbine engine sources has been assembled for use in research of the book <u>History of the Aircraft Gas Turbine Engine in the United States</u> . The bibliography consists of sources found in research conducted at Air Force, Navy, Army, NASA, Industry, museum, and technical society facilities. The sources identified are bibliographies, books, reports, theses, articles, and technical papers written for presentation. This bibliography also includes research criteria, search methodology, task schedules, and an outline for the content of the book, <u>History of the Aircraft Gas Turbine Engine in the United States</u> .					
20. DISTRIBUTION / AVAILABILITY OF ABSTRACT <input checked="" type="checkbox"/> UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS			21. ABSTRACT SECURITY CLASSIFICATION UNCLASSIFIED		
22a. NAME OF RESPONSIBLE INDIVIDUAL Marvin A. Stibich			22b. TELEPHONE (Include Area Code) (513) 255-8210		22c. OFFICE SYMBOL WRDC/POTX

# CONTENTS

	Page
Paragraph 1. INTRODUCTION .....	1
2. HISTORICAL SOURCES SURVEY OF THE AIRCRAFT GAS TURBINE ENGINE .....	2
2.1 Rearch Methodology .....	2
2.1.1 Air Force .....	3
2.1.2 Navy .....	3
2.1.3 Army .....	4
2.1.4 NASA/Government Agencies .....	4
2.1.5 Industry .....	4
2.1.6 Museums .....	5
2.1.7 Technical Societies .....	5
2.2 Bibliographic Search Criteria .....	5
2.3 Oral History Source Criteria .....	7
2.4 Conclusions .....	7
3. AIRCRAFT GAS TURBINE ENGINE HISTORICAL BIBLIOGRAPHY .....	10
3.1 Bibliographies .....	10
3.2 Books .....	10
3.3 Reports .....	14
3.4 Theses .....	40
3.5 Articles .....	43
3.6 Papers .....	137
4. OUTLINE FOR HISTORY OF THE AIRCRAFT GAS TURBINE ENGINE IN THE UNITED STATES .....	159
4.1 Thesis .....	159
4.2 Proposed Chapters .....	160
4.2.1 Chapter One .....	160
4.2.2 Chapter Two .....	160
4.2.3 Chapter Three .....	160
4.2.4 Chapter Four .....	160
4.2.5 Chapter Five .....	160
4.2.6 Chapter Six .....	161
4.2.7 Chapter Seven .....	161
4.2.8 Chapter Eight .....	161
4.2.9 Chapter Nine .....	161
4.2.10 Chapter Ten .....	161
4.2.11 Chapter Eleven .....	162
4.2.12 Chapter Twelve .....	162
4.2.13 Chapter Thirteen .....	162
4.2.14 Chapter Fourteen .....	162
4.3 List of Boundary Condition Factors to be Explored .....	162



Paragraph	4.4	Some Important People in the History of the AGTE .....	163
	4.5	Technical Approach .....	163
	4.5.1	Step One .....	163
	4.5.2	Step Two .....	164
	4.5.3	Step Three .....	164
	4.5.4	Step Four .....	164
	4.6	Proposed Task Schedule .....	164
	4.6.1	Task I .....	164
	4.6.2	Task II .....	164
	4.6.3	Task III .....	165
	4.6.4	Task IV .....	165
	4.6.5	Task V .....	165

Accession For	
NTIS CRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution /	
Availability Codes	
Dist	Avail and/or Special
A-1	



## 1. INTRODUCTION

The Aircraft Gas Turbine Engine (AGTE) has developed into one of the key technological achievements of the twentieth century. Its development has revolutionized travel. Along with television, the computer, and the unlocking of the secrets of the atom, the turbojet has lent its name to an age -- the "jet age." But what do we know of its development?

Ask any American sixth-grade child who invented the lightbulb and they will tell you it was Thomas Edison. But ask them who invented the first two jet engines to fly, and they would not know. British schoolchildren can probably tell you who the first inventor of the aircraft jet engine was -- Sir Frank Whittle, but then again, the British have always been more attentive to their own history than we Americans have been to ours. Millions of people have flown in turbojet, turboshaft, and turboprop-driven aircraft, but few of those people would recognize the names of Dr. Hans von Ohain, Sir Frank Whittle, Dr. Anselm Franz, William "Bill" Brown, Gerhard Neumann, or other turbojet pioneers who have worked to make the AGTE the technological marvel that it is today.

Although there have been excellent books published on reciprocating aircraft engines developed in the United States, and despite the publication of the Origins of the Turbojet Revolution, by Edward Constant III, very little has been written to relate and analyze the development of the aircraft gas turbine engine in this country. The AGTE has undergone tremendous growth and development, both in the United States and overseas. There have been remarkable advances in the technology and application of the turbojet engines pioneered by von Ohain and Whittle. This growth in the technology has been accompanied by a corresponding dramatic increase in cost and complexity. The turbojet community described by Constant has grown from a handful of people working in Germany and Britain to large multi-billion dollar establishments in over twenty countries. Where is the history of these accomplishments?

Lest the reader gain the impression that there has been no history written at all on the AGTE, let me assure you that there has. There has been much written on the origins and pioneering work on the early AGTEs. There has been some good history and bad history produced by individual companies on their AGTE development. An exhaustive amount of primary historical material consisting of Government contract documentation has been generated. An equally overwhelming amount of secondary source material consisting of periodical articles have been published. The aviation industry is one of the most closely watched industries today, with dozens of publications devoted to watching the activities of both the Government and industry. A great deal of continuing research will be devoted to sorting out the historical "wheat" from the mass of published and unpublished "chaff" of material. This bibliography on AGTE development in the United States is a first step in that direction.

The mass of published and unpublished material is vital to our understanding of the technology of the AGTE and its impact on our society. But we must not neglect the human side of the equation. The real story of the aircraft gas turbine engine is that of the people who at first nursed the technology along, searching for just the right combination of materials and design that would enable them to unlock the secret to turbojet flight. That story continues through wars and hardship to development and utilization of the turbojet as a weapon of war, then through cold war, detente, confrontation, and glasnost. These people constantly pushed turbojet technology to its limits, exploring new uses for the turbojet on land and sea, and scaling the technology both larger and smaller to push the limits of aerodynamics and thermodynamics farther and farther. We are fortunate that many of those turbojet pioneers are still alive to help us tell their stories. But their numbers are dwindling fast.

This constitutes the final report for Task 13 of contract F33615-65-C-2575, entitled, Scholarly Research in Aircraft Turbine Engines, for the Air Force Aero Propulsion and Power Laboratory. There are two major parts to this report. The first part is a Historical Sources Survey of the AGTE. In this portion of the Final Report, I will discuss my research methodology, bibliographic search criteria, oral history source criteria, and I will list the bibliographic sources found during the performance portion of this Task. Each type of bibliographic source will be listed separately.

The second part is a proposed outline of a book to be entitled History of the Aircraft Gas Turbine Engine in the United States. In this part, I will outline a series of Tasks which will encompass both my research into the history of the AGTE and my preparation of initial manuscript drafts. I will first propose an historical thesis and research model to be used in my research of the AGTE. Then I will propose a list of the engines to be used as technology advancement examples. Finally, I will outline the technical approach that I propose for my research. This technical approach will serve as the common methodology running through the ongoing series of Tasks, which I will present as the final item at the end of this report.

## 2. HISTORICAL SOURCES SURVEY OF THE AIRCRAFT GAS TURBINE ENGINE

It is the purpose of this portion of the report to document a survey of historical sources of aircraft gas turbine engine history in the United States. This survey was conducted from September 1987 to July 1988. This report contains two major components. The first major component is a summary of investigations into primary and secondary historical sources and resources of aircraft gas turbine engine (hereafter AGTE) history. The second component consists of the bibliographies generated by that survey of historical sources and resources.

There are two published sources that were the starting points of my research into AGTE history. The first is Development of Aircraft Engines by Robert Schlaifer, published as a Harvard Business School study in 1949. This source remains, despite its early date, the only comprehensive source on the relationship of the government to the aircraft engine industry. This germane work has not, however, been updated since. The second major source is The Origins of the Turbojet Revolution by Edward W. Constant. Constant not only provided a history of the technologies leading up the development of the turbojet, but he also provided a theoretical framework for understanding the technological and societal impetus driving the development of the AGTE. Constant ends his excellent work, however, with the close of World War II.

After an initial bibliographical survey of the field, I was surprised to learn, these two fine efforts notwithstanding, that there have been no other efforts to examine the history of the AGTE on an industry-wide basis after 1949. Although there have been several company histories and at least one aircraft engine encyclopedia published, no historian has attempted to trace the history of the aircraft gas turbine through its development to the present. This initial conclusion has been borne out by my subsequent bibliographic research.

### 2.1 Search Methodology.

There were several steps in my approach to discovering AGTE sources. The first step was to consider the potential scope of my historical inquiry. My goal, as developed by the Turbine Engine Division of the Air Force's Aero Propulsion and Power Laboratory, was to research the history of the AGTE in the United States. This would mean working from a historical time-frame of roughly 1929 to as far forward as possible (based upon the historical material that I found). The assistance of Marvin

Stibich, the Technical Area Manager of the Compressor Research Group, Technology Branch, Turbine Engine Division, was invaluable in helping me set the scope of the project and establishing search criteria. One of the project research parameters was to draw upon foreign sources only to the extent that these sources shed light upon American developments or influenced American developments. I narrowed down the scope quickly by deciding not to cover ramjets, but only turbojets, turboshafts, and turbofans. Another project parameter was that I draw my search material from only unclassified or nonproprietary sources. Although these parameters were to have a significant impact upon my research, there were other research methodology considerations as well.

The second step in my search methodology was to identify the documents and information desired. I also undertook to identify oral history sources to supplement or corroborate the written sources. These sources have not been identified in this bibliography, but have instead been integrated into my research files for use during the appropriate phase on my research. The second step was to identify potential sources of primary and secondary historical information. I determined that the best single source for books on AGTE history was the Library of Congress. Basic bibliographic searches there were complemented by bibliographic searches at Wright State University in Dayton, Ohio, and at Ohio State University in Columbus, Ohio.

2.1.1 Air Force. Periodical searches were conducted at Ohio State University and the Air Force History Office at Bolling Air Force Base in Maryland. Major sources for periodical searches were the Reader's Guide to Periodical Literature, and at the Air Force History Office, the Air University Library Index to Military Periodicals. Citations in the bibliography were drawn from 130 periodicals.

The search for government documents had to be addressed at several different levels. An important initial source for accessing the Air Force's documentary sources was United States Air Force History: A Guide to Documentary Sources compiled by Lawrence J. Paszek. I went through the Air Force's records management system from the Laboratory level through the Division and to the Command levels, conducting searches in both the Air Force Systems Command and the Air Force Logistics Command archives. I went to the Air Force History Office to work in their databases, particularly the Annual Department of Defense Bibliography of Logistics Studies and Related Documents and Air University Abstracts of Research Reports. Both proved to be very useful in my searches. I found some excellent theses in the directory of theses written by students at the Air Force Institute of Technology (AFIT).

2.1.2 Navy. Before I commenced my research visits to search for Navy AGTE documentation I had a series of discussions with A. S. "Butch" Atkinson. Mr. Atkinson is a former engineer in the Navy's propulsion establishment. These discussions proved very fruitful in several ways. Not only did Mr. Atkinson give me an excellent perspective on Navy propulsion history, but he agreed to survey some of his former associates and acquaintances in the Navy propulsion establishment to see whether there existed any potential oral history sources within that Navy propulsion fraternity. That survey provoked a wide response of potential sources with historical perspectives on key AGTEs developed in the United States.

To determine the location of potential sources of Navy AGTE history, I visited the Center for Naval History and the Naval Aviation History Office. I surveyed back issues as well as the index of Naval Aviation News, a formerly monthly, now bimonthly publication, dating back to 1917. I also examined the finding aids to the Bureau of Aeronautics Technical Reports Index. This index, although confidential, could prove to be an excellent source of primary historical data if declassified. Dr. William Armstrong, a NavAir historian, provided some key assistance in helping me work my way

through the Navy's history offices. Finally, a visit to the Naval Aviation Museum in Pensacola, Florida, and its Director, Captain Robert Rasmussen, was very helpful.

2.1.3 Army. To research the Army's role in AGTE development, I first talked to Donald D. Weidhuner, the former "dean" of the Army's propulsion establishment and now an engineering consultant. Mr. Weidhuner gave me an invaluable perspective on Army propulsion history. I then visited the Army's propulsion establishment to talk to the engineers directly. The US Army Aviation Research and Technology Activity is the organization responsible for directing the Army's propulsion research and development. Mr. Henry Morrow of the Activity's Aviation Applied Technology Directorate was very helpful in bringing me up to date on Army propulsion R&D.

2.1.4 NASA/Government Agencies. A trip to the NASA History Office in Washington and a chat with their archivist Lee Saegesser yielded several excellent clipping files that I was granted permission to copy. I also made research trips to the DARPA Archives at Battelle-Columbus to talk to their archivist Ed Westbrooks and to the Smithsonian's National Air and Space Museum (NASM) in Washington, D.C. to talk to Rick Lyes, the Engine historian in their Aeronautical Research Office. NASM's Aircraft Engines in Museums Around the World proved to be an excellent resource in tracking down specific AGTEs on my various research trips. Mr. John Taylor, Military Records Branch Archivist of the National Archives, was especially helpful in explaining the records retirement process of the government.

2.1.5 Industry. To search for AGTE history at the corporate level, I had to visit the companies that are still in the business to ascertain for myself what historical material existed at the various companies. I found a wide degree of variance in the amount and quality of historical material available. Some companies had a well-organized archive of historical material, while some companies had a wealth of unorganized material, and other companies had little if any material gathered together at all. Research visits were made to the following companies:

- (a) Garrett Turbine Engine Company
- (b) Allison Gas Turbine Division of General Motors Corporation
- (c) Pratt and Whitney Government Products Division of United Technologies Corporation
- (d) Pratt and Whitney Commercial Products Division of United Technologies Corporation
- (e) Textron-Lycoming
- (f) Williams International Corporation
- (g) General Electric Aircraft Engines Company
- (h) Solar Turbines, Incorporated
- (i) Sundstrand Turbomach
- (j) Boeing Corporation
- (k) Lockheed Aeronautical Systems Company
- (l) Rand Corporation

Due to the proprietary nature of some of the documents uncovered in the historical sources survey, I have included in this inventory only those published newspaper or periodical sources found at the aircraft engine companies that are also available to the general public. A great deal of source material (such as descriptions of files and listings of documents provided to me by corporate archivists) have been incorporated into my research notes and not listed in this bibliography. This was at the

request of individual archivists and historians, who, although they did not wish to hinder my research in any way, were not comfortable in seeing their collection of catalogues, inventories, and listings made public.

Since many of the past giants of the turbine engine business have either gone out of business entirely (such as Curtiss-Wright and Frederic Flader), or have ceased development of AGTEs (such as Westinghouse and Boeing), I realized that I must therefore rely on oral history sources to complement the scarcity of historical documentation available on the work of these companies. My list of such oral history sources is not extensive and should prove to be of great value to my research.

2.1.6 Museums. Many aviation museums have AGTEs in their collections and there are many outstanding engines displayed, but the amount of background documentation on the engines themselves is negligible. This was no doubt due to the fact that the engines were donated by the manufacturers to the museum and that the receivers of such largesse were in no position to insist on full documentation accompanying such donations. These facilities do, however, provide excellent example cutaways of specific engines. Specific museums visited include:

- (a) Air Force Museum
- (b) National Air and Space Museum of the Smithsonian
- (c) San Diego Aerospace Museum
- (d) U.S. Navy Memorial Museum
- (e) Bradley Air Museum
- (f) Naval Aviation Museum
- (g) General Electric Engine Museum
- (h) Marine Corps Aviation Museum
- (i) U.S. Army Transportation Museum

Citations of individual reports and other documents found have not been included in this bibliography, but have been incorporated into my research files for use at the appropriate stage in my research.

2.1.7 Technical Societies. The final potential source of AGTE historical documentation are the AGTE professional societies, such as the American Society of Mechanical Engineers International Gas Turbine Institute (ASME-IGTI), the Society of Automotive Engineers (SAE), and American Institute of Aeronautics and Astronautics (AIAA). I compiled a list of references from these organizations as they appeared in the various bibliographic databases, such as the Directory of ASME Gas Turbine Technical Papers of the American Society of Mechanical Engineers International Gas Turbine Institute. Attending the 1987 SAE Aerospace Vehicle Conference enabled me to attend the fascinating session on "Historical Events in Gas Turbine Propulsion," where I listened to some of the most influential people in the field discuss some aspects of the history of AGTE research and development.

## 2.2 Bibliographic Search Criteria.

Before commencing a bibliographic search of the existing published materials, I developed a bibliographic search criteria. There exists a large body of periodical material on the AGTE, and it was necessary to cut through to the historical heart of the material. Even with this criteria, it was difficult to determine the potential historical usefulness of an article by simply looking at the title (without reading it).

The first and most obvious historical elements that I looked for were those references that were historical narratives, either written by or about those pioneers of the AGTE. Dr. Hans von Ohain, and Sir Frank Whittle were the two main subjects of this aspect of the search, although others such as Jendrassik in Hungary, Wagner in Germany, Nathan Price in the United States, and others were also on my list. As you can see, my list of pioneers was not restricted to the United States alone. I believe that the US owes a great debt to those pioneers from other countries that broke the initial ground in AGTE research.

Second on the list of criteria were those articles that described particular AGTE technological developments historically, or that provided historical descriptions of AGTE development programs. The various histories of companies that developed AGTEs, such as General Electric's Seven Decades of Progress, and others, are examples of this type of source.

The next criteria was to identify those sources that provided a description of the state of AGTE development at any one point in time. These were often comparisons of British and American or European and American avenues of approach to solving AGTE development problems, or, comparisons of different engines designed to address the same requirement.

Next on the criteria was to identify those publications that described individual American-developed aircraft gas turbine engines. Many of the American engines were described and analyzed by the trade publications shortly after being introduced into service by either the Air Force or an airline. Of particular interest were the British or European reviews of American products. Many of the publications devoted to aviation published annual listings of the aircraft gas turbine engines then in service. These listings were often accompanied by data on AGTE utilization in the U.S.

I decided to examine selected themes in the history of the AGTE in the United States. These themes seemed to recur in the periodical literature on the AGTE. Examples of some of these themes are:

- (a) Competition for development resources between the piston engine and the aircraft gas turbine engine.
- (b) Competitive development of the centrifugal and axial compressor for AGTE application.
- (c) Relative merits of the turbojet, turboprop, and turbofan for differing aviation requirements.
- (d) Competition for sales between American and foreign AGTE manufacturers.
- (e) The question of technology transfer between American and foreign companies.

There were several trends in AGTE development that have developed along with the engines themselves. Computer analysis of AGTE materials, component development, production and performance prediction is a trend that dramatically influenced the research and development of the AGTE. Cost analysis, life-cycle analysis, and other logistical analysis have been spurred by computer enhancement. Finally, the ongoing debate over the impact of competition within the AGTE development community was a trend that I decided to survey.

### 2.3 Oral History Source Criteria.

As with the bibliographic criteria, I developed a ranking method for determining the potential value of the oral history narrators that I found. The most important potential sources of oral history are the two inventors of the aircraft gas turbine engine, Dr. Hans von Ohain and Sir Frank Whittle, both of whom are still alive and living in the United States. Another pioneer in AGTE development is Dr. Anselm Franz, who, with former members of his Junkers design team came to this country and developed the Textron-Lycoming center of turbojet, turboprop, and turboshaft research and development. These were the most valuable of my potential sources.

The second, but also very important tier of potential oral history narrators are those primary designers and leaders of the design and development teams of the first American efforts at AGTE development. Those members of the General Electric, Lockheed, Westinghouse, Solar, and the other initial corporate research and design teams will be very valuable for information. Dr. Sam B. Williams, Nathan Price, Helmut Schelp, and other important contributors to AGTE development are in this group.

The third tier of potential oral history narrators are those engineers and scientists who have made significant contributions to AGTE development advancement. Leaders of corporations such as Gerhard Neumann, William Brown, Heinz Moellman, Jack Curry, Peter Tramm, J.P. Frignac, and others are important sources for AGTE history. The government side of the AGTE development story must also be told in any history of the technology. Individuals such as A.S. Atkinson of the Navy, Ernest C. Simpson of the Air Force, and Don Weidhuner of the Army are valuable sources of AGTE history (although Simpson of the Air Force has passed away, his end-of-tour report The Last Great Act of Defiance is still a valuable source of behind-the-scenes history).

Oral history alone cannot tell the whole story of the development of the aircraft gas turbine engine in the United States, but it can provide the necessary corroborative evidence to verify the written record, and it can tell the "human" story of the development of this remarkable technology. After all, research, design, and development are accomplished by people, and their stories, although distorted by time, events, and emotions, are valuable additions to the database with which the historian examines the past.

In the interests of protecting the privacy of those individuals who have agreed to be interviewed, I have not listed their names in this bibliography. The names of specific individuals have been cross-referenced with the applicable engines in my research files. Anyone with a legitimate research interest in aircraft gas turbine engine history can contact me directly to obtain specific research leads.

### 2.4 Conclusions.

As you will see from the following bibliography, I have found a great many secondary sources on aircraft gas turbine engine history. The number of primary sources, however, is limited. The primary sources of AGTE history are the reports of the inventors and developers of the technology, written as the research and development took place. Much of this material is buried deep within the recesses of the governmental systems of records retention and archives. Digging through the morass of material to uncover a comprehensive history of the entire aircraft gas turbine engine industry is impossible to accomplish in any one project due to several reasons.

The first reason is that there hasn't been enough scholarly research into the records of AGTE development to determine precisely how much contract records and other corporate historical material



exists. Backtracking through the several federal agencies responsible for monitoring and funding AGTE research and development would alone require a large scale research effort.

The companies responsible for research, design and development of aircraft gas turbine engines have done so for the most part under government contract. What material that has not been given over to the government at the end of a particular contract effort is jealously guarded by the companies due to the tremendously competitive nature of the business.

Much of the history generated by the companies is, to say the least, only reflective of that particular company's historical contributions at the expense of academic, government, and/or other corporate contributions to the technology. They are good publicity for the company, but hardly reflective of historical reality as far as the whole of AGTE history is concerned.

Another difficulty in attempting a comprehensive history of the aircraft gas turbine engine is that the astonishing growth of this technology has given impetus to the development of many now standard turbojet derivatives, such as the turboprop, turboshaft, and turbofan. There have been many not-so-standard derivatives as well, such as the ramjet, turboramjet, turborocket, the turboaccelerator, and other exotic variants. Derivatives of aircraft gas turbine engine technology are now being utilized as powerplants by suppliers of ground power, shipbuilders, tank manufacturers, and others.

Each of these derivatives have both resulted from and provided impetus for an astounding degree of gas turbine component development. Each of the major components of the aircraft gas turbine engine (or any other gas turbine engine), the compressor, combustor, turbine, nozzle, and controls have themselves been the focus of major research, design, and development programs. What has resulted is a huge mass of historical, engineering, and scientific data. The advent of the computer, which has enjoyed a similar spectacular technological growth in about the same time-frame as the AGTE, has provided a heretofore unheard-of ability to analyze, model, and/or predict the performance of the AGTE. This has again resulted in unparalleled research advances in component design, construction, and integration. This has, in turn, generated masses of computerized data, adding to the ever-growing mass of data to be surveyed (at least) by the historical researcher.

The question became "how does one reduce this historical examination of the aircraft gas turbine engine to manageable proportions?" The solution which was proposed to me by the engineers in the Turbine Engine Division of the Air Force Aero Propulsion Laboratory was to examine the history of the AGTE by looking at the design and development of the engines that exemplified significant technological achievements that have shaped the development of the technology as a whole. This would dramatically reduce the scope of my research while providing a balanced view of the entire field of AGTE technological growth. I would describe the development of specific engines, using available historical documentation corroborated by oral history interviewing, while also providing a narrative history of the growth of the technology as a whole.

Through a series of discussions with Dr. Walter O'Brien, Professor of Mechanical Engineering at Virginia Polytechnic Institute and State University, and former Chairman of the ASME's Gas Turbine Committee, we developed a thesis and research model that took the "example engines" idea and fit it into a conceptual framework of "threat/opportunity leading to response, limited by boundary conditions." This thesis is detailed in the second part of this report.

While I will give AGTE research, design, and development credit to those foreign engine establishments where credit is due, this will be a history of American AGTE development. The AGTE establishment in the United States owes a large technological debt to those in Great Britain and

Germany who pioneered the development of the AGTE. This pioneering work must be acknowledged by any history of the technology. Major engine examples, however, will be drawn from American AGTE development.

### 3. AIRCRAFT GAS TURBINE ENGINE HISTORICAL BIBLIOGRAPHY

#### 3.1 Bibliographies.

The Aerospace Periodical Index, 1973-1982. Smithsonian Institution Libraries, Research Guide No.3. Boston: G. K. Hall, 1983.

The Air University Library Index. Department of the Air Force Library, Maxwell Air Force Base AL 1949.

Air University. Research Studies Institute. Documentary Research Division. An Air Power Bibliography. Maxwell AFB, AL: Air University, 1956.

Bibliography on Gas Turbines, 1896-1948. New York: Gas Turbine Power Division of the American Society of Mechanical Engineers, 1962.

Hallion, Richard P. A Source Guide to the History of Aeronautics and Astronautics. Project Warrior Monograph. Edwards AFB CA: Air Force Flight Test Center, History Office, 1982.

Hannibal, August. Aircraft, Engines and Airmen: A Selective Review of the Periodical Literature, 1930-1969. Metuchen, NJ: Scarecrow, 1972.

Industrial Arts Index. (Subject Index to a Selected List of Engineering, Trade, Business Periodicals, Books, and Pamphlets). New York: H. W. Wilson, 1913-1957.

Paszek, Lawrence J. United States Air Force History: A Guide to Documentary Sources. Washington: Office of Air Force History, 1973.

Pisano, Dominic; Lewis, Cathleen. Air and Space History: An Annotated Bibliography. New York: Garland Publications, 1988.

Readers' Guide to Periodical Literature. Network: H. W. Wilson, 1901.

U.S. Library of Congress. Division of Aeronautics. Subject Index to Aeronautical Periodical Literature and Reports for the Year 1938. New York, 1939.

U.S. Library of Congress. Division of Aeronautics. The Aeronautical Index for 1939: A Subject and Author Index to Aeronautical Periodicals and Technical Reports. New York: Sherman Fairchild Publication Fund, Institute of the Aeronautical Sciences, 1943.

U.S. National Advisory Committee for Aeronautics. Index of NACA Technical Publications. 9 vols. Washington, D.C.: 1915-1949.

3.2 Books. Apart from the two works mentioned in the introduction to this report, the books listed here are mostly secondary sources. Very few are histories of the AGTE. Most of these sources are specific to the AGTE, although some are specific to one or more historical or technical aspects of AGTE history. Some are identified by a Library of Congress (LOC) call number. These books have not been surveyed for the historical material that they may contain, but rather are listed as a starting point for historical research. Other references discovered during the course of my research will be added to this bibliography.

- Amtmann, Hans H. The Vanishing Paperclips: America's Aerospace Secret, a Personal Account. Monogram Aviation Publications, Boylston MA, 1988.
- Anderson, Fred. Northrop. An Aeronautical History. Northrop Corporation, Los Angeles CA, 1976.
- Barnett, C. The Audit of War. Macmillan, London, England, 1986.
- Beyerchen, A. D. Scientists Under Hitler. Yale University Press, New Haven, Conn, 1977.
- Bilstein, Roger E. Flight In America, 1900-1983: From the Wrights to the Astronauts. Johns Hopkins University Press, Baltimore MD, 1984.
- Bower, Tom. The Paperclip Conspiracy: The Hunt for the Nazi Scientists. Little, Brown and Company, Boston MA, 1987.
- Boyne, Walter J. The Jet Age: Forty Years of Aviation. Eds: Lopez Donald. National Air and Space Museum, Smithsonian Institution, Washington, D.C., 1979.
- Burchard, J.; and Thiesmeyer, L. Combat Scientists. Little, Brown and Company, Boston MA, 1947.
- Burnet, C. Three Centuries to Concorde. MEP, London, England, 1979.
- Casamassa, Jack V. Jet Aircraft Power Systems. McGraw-Hill, New York NY, 1950.
- Closterman, Pierre. The Big Show. Ballantine, New York NY, 1951.
- Constant, Edward W. II. The Origins of the Turbojet Revolution. Johns Hopkins University Press, Baltimore MD, 1980.
- Conway, Hobart M. Control of Airplane flight Path by Propulsive Jets. no city, 1948.
- Coombs, Charles I. Skyrocketing Into the Unknown. NP, no city, 1954.
- Coplin, J. F. Aircraft Jet Engines. Macdonald & Co, London, England, 1967.
- Crane, Diana. Invisible Colleges. University of Chicago Press, Chicago IL, 1972.
- Daniels, George H. Science in American Society. NP, New York NY, 1971.
- Driggs, Ivan H.; and Lancaster, Otis E. Gas Turbines for Aircraft. Ronald Press Co., New York NY, 1955.
- Emme, Eugene M. Hitler's Blitzbomber. Air University, Maxwell Air Force Base AL, 1951.
- Finch, Volney C. Jet Propulsion Turbojets. National Press, Palo Alto CA, 1955.
- Frankland, N.; and Webster, C. Strategic Air Offensive Against Germany. HMSO, London, England, 1961.

- Franz, Anselm. From Jets to Tanks: My Contribution to the Jet Age. Avco-Lycoming, Stratford Division, Stratford CT, 1980.
- Garrett Family of Aircraft Engines. Phoenix, AZ: Garrett Corporation, n.d.
- Gerstl, Joel E.; and Perucci, Robert. Profession without Community: Engineers in American Society. NP, no city, no y.
- Golley, John. Whittle: The True Story. Smithsonian Institution Press, Washington DC, 1987.
- Gray, George W. Frontiers of Flight: The Story of NACA Research. Knopf, New York NY, 1948.
- Gregory, Frank; Simpson John; and Williams Geoffrey Lee. Crisis in Procurement: A Case Study of the (BAC) TSR-2. RoyalUnited Service Institution, London, England, 1969.
- Grierson, John. Jet Flight. S. Lowe, Marston, nd Co., London, England, 1946.
- Gunston, Bill. The Jet Age. Barker Publishing Co., London, England, 1971.
- Hage, Robert E. Jet Propulsion in Commercial Air Transportation. Princeton University Press, Princeton NJ, 1948.
- Hamlin, Benson. Jet Propulsion. no city, 1947.
- Heiman, Grover. Jet Pioneers. Duell, Sloan and Pearce, New York NY, 1963.
- Heinkel, Earnst. Stormy Life: Memoirs of a Pioneer of the Air Age. Eds: Thorwald Jurgen.E. P. Dutton & Company, New York NY, 1956.
- Hinsley, F. H. British Intelligence in the Second World War. HMSO, London, England, 1981.
- Hooker, Sir Stanley. Not Much of an Engineer: An Autobiography. AirLife Publishing Limited, Shrewsburg, England, 1984.
- Ingalls, Douglas J. L-1011 TriStar and the Lockheed Story. Aero Publishers, Falmouth CA, 1973.
- Jet Engine. London: Rolls-Royce, 1969.
- Keenan, John Gregory. Elementary Theory of Gas Turbines and Jet Propulsion. Oxford University Press, New York NY, 1946.
- Kilmarx, Robert A. A History of Soviet Air Power. Praeger, Inc., New York NY, 1962.
- Kuhn, Thomas S. The Essential Tension. University of Chicago Press, Chicago IL, 1977.
- Lancaster, Otis E. Jet Propulsion Engines. Eds: Lancaster, Otis. E. Princeton University Press, Princeton NJ, 1959.
- Lasby, C. Project Paperclip. Atheneum Publishing Inc., New York NY, 1971.

- Lent, Constantine Paul. Rocketry: Jets and Rockets. Temple Press, London, England, 1957.
- Lucas, Geoffrey. Gas Turbines Materials. Temple Press, London, England, 1957.
- Mangham, Eric. Jet Engine Manual. Newnes Publishing, London, England, 1955.
- Mansfield, Harold. Vision, a Saga of the Sky: The Original "Story of Boeing." Madison Publishing Associates, New York NY, 1986.
- McCloy, Robert Winston. The Fundamentals of Supersonic Propulsion. Boeing Company, Supersonic Test Group, Seattle WA, 1967.
- McGovern, J. Crossbow and Overcast. William Morrow, New York NY, 1964.
- Miller, Donald; and Sawers, David. The Technical Development of Modern Aviation. Routledge & Kegan Paul, London, England, 1968.
- Morgan, Howard E. Turbojet Fundamentals. Douglas Aircraft Co., Santa Monica CA, 1956.
- Neumann, Gerhard. Powerplants -- Past, Present, and Future. Society of Automotive Engineers, Warrendale PA, 1975.
- Neumann, Gerhard. Herman the German. William Morrow and Company, New York NY, 1984.
- Neville, Leslie E.; and Silsbee, Nathaniel F. Jet Propulsion Progress. McGraw-Hill, New York NY, 1948.
- No Author Listed. Agidius Elling-A Norwegian Gas Turbine Pioneer. Scandinavian Airlines, n. p., 1982.
- No Author Listed. Seven Decades of Progress: A Heritage of Aircraft Turbine Technology. Aero Publishers, Falmouth CA, 1979.
- No Author Listed. An Encounter Between the Jet Engine Inventors: Sir Frank Whittle and Dr. Hans von Ohain. Wright-Patterson Air Force Base History Office, Dayton OH, 1986.
- Norman, Carl A.; and Zimmerman, R. H. Introduction to Gas-Turbine and Jet-Propulsion Design. Harper and Brothers, New York NY, 1948.
- Partridge, J. J. Jets. [LOC Call No. TL782.P3], no city, 1940.
- Postan, M. M. Design and Development of Weapons. HMSO, London, England, 1964.
- Roberson, Edwin Cecil. The True Book About Jet Engines and Gas Turbines. F. Muller, London, England, 1962.
- Rosenberg, Nathan. Technology and American Economic Growth. Harper, New York NY, 1972.
- Sawter, R. Tom. The Modern Gas Turbine. Prentice-Hall, New York NY, 1947.

- Schlaifer, Robert. Development of Aircraft Engines. Harvard University, Boston MA, 1950.
- Scholl, Robert R. H; and Schoenberger, William A. Out of Thin Air: Garrett's First 50 Years. The Garrett Corporation, Los Angeles CA, 1985.
- Shephard, Dennis G. Introduction to the Gas Turbine. Van Nostrand, Princeton, NJ, 1960.
- Shephard, Dennis G. Aerospace Propulsion. American Elsevier Publishing Co., New York NY, 1972.
- Simpson, Ernest C. The Last Great Act of Defiance: The Memoirs of Ernest C. Simpson, Aeropropulsion Pioneer. Eds: St.Peter James J. Wright-Patterson Air Force Base, Aero Propulsion Laboratory, Dayton OH, 1987.
- Smith, Geoffrey. Gas Turbines and Jet Propulsion for Aircraft. Aircraft Books, Inc., New York NY, 1946.
- Thomson, William. Thrust for Flight. [LOC Call No. TL701.T435], no city, 1969.
- Treager, Irwin E. Jet Aircraft Engines. no city, 1956.
- Wagner, William. Continental!: Its Motors and Its People. Aero Publishers, Falmouth CA, 1983.
- Walker, Lois E.; and Wickam, Shelby E. From Huffman Prairie to the Moon: The History of Wright-Patterson Air Force Base. Wright-Patterson AFB OH: Office of History, 2750th ABW, Dayton OH, 1986.
- Whittle, Frank. Jet. Frederick Muller, London, England, 1953.
- Williams, Denys Stephen Dod. The Gas Turbine World Directory of Manufacturers. Temple Press, London, England, 1955.
- Winterbotham, F. W. The Nazi Connection. Weidenfeld & Nicolson, London, England, 1979

3.3 Reports. This bibliography contains official Government reports pertaining either to some aspect of AGTE history or to some specific aspect of AGTE research, development, analysis, or cost. British and German reports pertain to initial research and development of the AGTE during World War II. I was able to uncover a large body of potential information through examining annual histories located at the history offices at Wright-Patterson.

5000 Shaft Horsepower Class Modern Technology Demonstrator Engine (PW3005 MTDE). Report prepared for Applied Technology Laboratory, Research and Technology Laboratories (AVSCOM). West Palm Beach FL: United Technologies Corp., Pratt & Whitney Aircraft Group, Government Products Division, 1975.

A Reconnaissance on Methods of Acquiring and Maintaining Aircraft Engines. Report prepared for Office of the Assistant Secretary of Defense for Installations and Logistics, 1970.

A Review of the Aircraft Rework Program at the Naval Air Rework Facility, Pensacola, Florida. Virginia Beach, VA: Naval Audit Service, June 1984,

- A Study of the Aircraft Engine Acquisition Process. Alexandria, VA: US Army Materiel Command, Office, Joint Activities Coordinator, February 1971.
- Acquisition Practices and Installation Management in the KC-135/CFM56 Reengine Program. Norton AFB, CA: Air Force Audit Agency, January 1984.
- AD HOC Group Recommendation No. 3, DOD Aircraft Engine Requirements, Capabilities and Capacities Study. Wright-Patterson AFB, OH: Air Force Logistics Command, n.d.
- Adam, Paul W. and Norris, James W. Advanced Jet Engine Combustor Test Facility. NASA Technical Note D-6030. Washington, DC: National Aeronautics and Space Administration, 1970.
- Advanced Components for Turbojet Engines Conference Proceedings. North Atlantic Treaty Organization Advisory Group for Aerospace Research and Development, 1968.
- Advanced Compressors (Lecture). North Atlantic Treaty Organization Advisory Group for Aerospace Research and Development, 1970.
- Advanced Development Program Technical Development Plan for High-Bypass Turbofan. 64AP-78, Air Force Systems Command, 1964.
- Advanced Technology Engine Studies (ATES), Final Report. FR-15383, Report prepared for Naval Air Systems Command, West Palm Beach, FL: Pratt & Whitney, 1982.
- Advanced Turbine Engine Gas Generator Semi-Annual Report. Report prepared for Air Force Wright Aeronautical Laboratories, Wright-Patterson AFB, OH: Technical Support Team, 1983.
- Advanced VTOL Naval Aircraft Study. V. 1 -Design and Analysis. Final Report. Report prepared for Naval Air Systems Command. Lockheed- California Company, 1968.
- Advanced VTOL Naval Aircraft Study (U). V. 2 - VTOL Propulsion System Data. Final Report. Report prepared for Naval Air Systems Command. Lockheed-California Company, 1968.
- Aerodynamic Design of Axial-Flow Compressors. NASA SP-36, National Aeronautics and Space Administration, 1965.
- Aircraft Engine Acquisition. St. Louis, MO: US Army Aviation Systems Command, n.d..
- Aircraft Engine Health Monitoring System (EHMS). Wright-Patterson AFB, OH: Office of DCS/Logistics Operations, 1977.
- Aircraft Engine Life Expectancy. AMCR 65-38, ARDCR 65-4, Air Material Command, 1957.
- Aircraft Engine Management Policy Studies. Wright-Patterson AFB, OH: Air Force Logistics Command, Management Sciences Office, n.d.
- Aircraft Engine Spare Parts Pricing, Costing, Negotiation and DOD Review Functions. Arlington, VA: DOD Inspector General, March 1985.



- Aircraft Utilization & Propulsion Reliability Report. Oklahoma City, OK: Department of Transportation, Federal Aviation Administration, Aeronautical Center, 1985.
- Aircraft Utilization & Propulsion Reliability Report. Oklahoma City, OK: Department of Transportation, Federal Aviation Administration, Aeronautical Center, 1984.
- Aircraft Utilization & Propulsion Reliability Report. Oklahoma City, OK: Department of Transportation Federal Aviation Administration, Aeronautical Center, 1985.
- Aircraft Utilization & Propulsion Reliability Report. Oklahoma City, OK: Department of Transportation, Federal Aviation Administration, Aeronautical Center, 1981.
- Aircraft Utilization and Propulsion Reliability Report May 1976. Oklahoma City, OK: Department of Transportation, Federal Aviation Administration, Aeronautical Center, 1976.
- Aircraft Utilization and Propulsion Reliability Report, January 1979. Oklahoma City, OK: Department of Transportation, Federal Aviation Administration Aeronautical Center, 1979.
- Aircraft Utilization and Propulsion Reliability Report - January 1973 thru June 1975. Oklahoma City, OK: Department of Transportation, Federal Aviation Administration, 1975.
- Ake, Frederick K. and Hanson, Donald B. F100 Turbofan Engine Accident Investigation Procedures. ASK-TR-79-5022, Report prepared for Aeronautical Systems Division. Wright-Patterson AFB, OH: F100 Joint Engine Program Office, 1979.
- Alcock, Joseph F. Advanced Engine Simulation. Report prepared for Air Force, Aero Propulsion Laboratory, Air Force Systems Command, Wright-Patterson AFB, OH. West Palm Beach, FL: United Technologies Corp., Pratt & Whitney Aircraft Group Government Products Division, 1978.
- Alexander, Arthur J. and Nelson, J. R. Measuring Technological Change: Aircraft Turbine Engines. Report prepared for Office of the Director of Defense Research and Engineering. Santa Monica, CA: The Rand Corporation, 1972.
- Allison Division of General Motors. Design and Production Features: USAF Model J35-A-23 Turbo-Jet Engine. Engineering Department Report No. 419. Indianapolis: Allison Division of General Motors, n.d.
- Alternatives Available for Reducing Requirements for Spare Aircraft Engines. Washington, DC: US General Accounting Office, 1977.
- Alverson, Richard F. Compressor Final Report Vol. I, II, III. American and British Gas Turbine Development, n.d., 1947.
- American Society of Mechanical Engineers, Gas Turbine Power Division. Bibliography on Gas Turbines, 1896-1948. New York: American Society of Mechanical Engineers, 1949.
- An Encounter Between the Jet Engine Inventors, Sir Frank Whittle and Dr. Hans Von Ohain. Wright-Patterson AFB, OH: Aeronautical Systems Division History Office, 1986.

- Analysis of F-100 Engine Requirements. Wright-Patterson AFB, OH: Office of DCS/Logistics Operations, n.d.
- Analysis of F-100 PW 100 Spare Engine Requirements. Wright-Patterson, AFB, OH: Office of DCS/Logistics Operations, 1977.
- Appold, Col. Long Range Planning. Wright-Patterson AFB, OH: Propulsion Committee, 1955.
- Arconati, Arnold V. Return on Investment Analysis: UH-1 and CH-47 Helicopter Engine Replacement. St. Louis, MO: US Army Aviation Research Development Command, 1981.
- ARDC Technical Program Planning Document for the Fiscal Year 1959 Operating Program, Propulsion. Wright-Patterson AFB, OH: Air Research and Development Command, 1957.
- Army Aircraft Engines Model Designation. Wright-Patterson AFB, OH: Air Technical Service Command, 1945.
- Army Aircraft Engines: Designations, Characteristics. TSEST-A6, Air Material Command, 1946.
- Amhym, Albert A. Some Notes on British Jet Engine Manufacture. Wright-Patterson AFB, OH: Headquarters Air Force Material Command, 1946.
- ASD J100-CA-100 Engine Test. Report prepared for Aeronautical Systems Division, Wright-Patterson AFB, OH. Toledo, OH: Teledyne, CAE, 1970.
- Aviation Fuels and Their Effects on Engine Performance. U.S. Army Air Force, n.d.
- Award and Administration of the Air Forces Contract with Cooper Airmotive, Inc. for Overhaul and Repair of the -59W and -55 Series of the J-57 Engine. Washington, DC: US General Accounting Office, 1975.
- B-1 F101 Engine Materials (Including Review Item Dispositions), n.p., 1946.
- Badertscher, Robert F. Research on Energy, Defense Resources and Related Technologies. Arlington, VA: Office of the Director of Defense Research and Engineering, Advanced Research Projects Agency; Columbus, OH: Batelle Columbus Laboratories, 1975.
- Baghdad, Samy; Hopkins, Brink A. and Osborn, William F. Centrifugal Compressor Design Criteria: A Comparison of Theory and Experiment. USAAMEDL-TRP74-69. Detroit, MI: Detroit Diesel Allison, 1974.
- Barber, E. A. New Strategic Airlift Concepts Study, V. 1 - Executive Summary. Report prepared for Air Force Flight Dynamics Laboratory, Air Force Systems Command, Wright-Patterson AFB, OH. Seattle, WA: Boeing Aerospace Company, Navy Systems & Advanced Projects Division, 1979.
- Barber, E. A.; Blattner, D. G.; Decan, L. A.; Marhefka, R. J.; Moser, M. B. and Richards, P. J. New Strategic Airlift Concepts Study, V. 2 - Study Description and Results. Report prepared for Air Force Flight Dynamics Laboratory, Air Force Systems Command, Wright-Patterson AFB,

OH: Seattle, WA: Boeing Aerospace Company, Navy Systems & Advanced Projects Division, 1979.

Basso, A. R., II. Nondestructive Inspection (NDI) for Engine Blades and Vanes. Wright-Patterson AFB, OH: Aeronautical Systems Division, 1977.

Batka, Joseph J.; Montgomery, J.F.; and Troha, William A. Report on the Status of the Turbine Engine Development Process. Wright-Patterson AFB, OH: Air Force Systems Command, 1980.

Beal, George; McCallum, Brent and Grenich, Fred. Fuel-Engine-Airframe Optimization Study. Report prepared for Air Force Wright Aeronautical Laboratories, Air Force Systems Command, Wright-Patterson AFB, OH. West Palm Beach, FL: United Technologies Corp., Pratt & Whitney Aircraft Group, Government Products Division, 1986.

Beale, David K. Evaluation of a Free-Jet Technique for Testing Fighter Aircraft Propulsion Systems. AEDC-TR-86-15, Tullahoma, TN: Arnold Engineering Development Center, 1986.

Behike, R. F.; Brooky, J. D. and Canal, E. Jr. A Study of Blade Aspect Ratio on A Compressor Front Stage, Final Report. NASA CR-159556, Report prepared for National Aeronautics and Space Administration, West Palm Beach, FL: Pratt & Whitney, 1980.

Benson, Robert L. UH-1 and AH-1 Engine Replacement Cost Effectiveness Analysis. St. Louis, MO: US Army Aviation Systems Command, 1986.

Bettner, James L. Turbine Engine High Flow. AFAPL-TR-76-78, Report prepared for Air Force Aero-Propulsion Laboratory, Wright-Patterson AFB, OH. Detroit, MI: Detroit Diesel Allison, 1976.

Bhuta, Dr. P.G.; Jacoby, Jerome L. and Wright, James E. Feasibility Demonstration of Holographic Non-Destructive Inspection of Naval Aircraft Engine Components. Report prepared for Naval Air Development Center. Redondo Beach, CA: TRW Systems Inc., 1974.

Birkler, J. L. and Nelson, J. R. Aircraft Turbine Engine Monitoring Systems: Overview and Lessons Learned from Six Case Studies. Santa Monica, CA: The Rand Corporation, 1979.

Birkler, J. L. and Nelson, Jr. R. Aircraft Turbine Engine Monitoring Experience: Implications for the F100 Engine Diagnostic System Program. Report prepared for Office of the Director, Operational Requirements & Development Plans, Deputy Chief of Staff, Research and Development, Headquarters, USAF. Santa Monica, CA: The Rand Corporation, 1979.

Birkler, J. L.; Garfinkel, J. B. and Marks, K. E. Development and Production Cost Estimating Relationships for Aircraft Turbine Engines. Report prepared for Office of the Director, Operational Requirements & Development Plans, Deputy Chief of Staff, Research and Development, Headquarters, Santa Monica, CA: The Rand Corporation, 1982.

Birkler, John L. Future Combat Environments: Implications for the Engine Development Process. Santa Monica, CA: The Rand Corporation, 1984.

Blyskal, Stanley H. J52-P-6A Compressor Stall Investigation. NAPTC-ATD-135. Trenton, NJ: Naval Air Propulsion Test Center, 1967.

- Bolan, P. and Cohen, R. Research and Development of High-Performance Axial-Flow Turbomachinery. NASA CR-800, Report prepared for National Aeronautics and Space Administration. Pratt & Whitney, 1968.
- Boren, H. E., Jr. A Computer Model for Estimating Development and Procurement Costs of Aircraft (DAPCA-III). Washington, D.C.: Office of the Director, Operational Requirements & Development Plans, Deputy Chief of Staff, Research and Development, Headquarters, Santa Monica, CA: The Rand Corporation, 1976.
- Bowes, M. A. Engine/Airframe/Drive Train Dynamic Interface Documentation. Report prepared for Applied Technology Laboratory Research and Technology Laboratories (AVRADCOM). Chicago, IL: Kearney Incorporated, 1978.
- Brady, Gordan W.; Ludwig, Gary R.; Rice Roy S. Jr. and Schroeder, Ewald F. Analytical and Experimental Investigation of Rotating Stall Phenomena in Turbine Engine Compressors. AFAPL-TR-67-19, Report prepared for Air Force Aero-Propulsion Laboratory, Wright-Patterson AFB, OH. Cornell Aeronautical Laboratory, Incorporated, 1967.
- Brent, J. A.; Cheathan, J. G. and Singleton, T. S. High-Stage Loading/Low Aspect Ratio Compressor (HSL/LARC) Final Report, Vol. I & II. AFWAL-TR-80-2075, Report prepared for Air Force Aero-Propulsion Laboratory, Wright-Patterson, AFB, OH. East Hartford, CN: Pratt & Whitney, 1980.
- Broadwell, Capt J. E. and Harris, Capt C. D. A Method for Determining the Operating Characteristics of Turbojet Engines at other than Design Conditions. Wright-Patterson AFB, OH: Air Technical Service Command, 1945.
- Broadwell, Capt J. E. and Harris, Capt C. D. Some Engineering Fundamentals of the Turbojet, Turboprop, and Subsonic Ramjet. Wright-Patterson AFB, OH. Air Material Command, 1946.
- Broadwell, Capt J. E. and Harris, Capt C. D. Part-Thrust Conditions of the Turbo-Jet. Air Technical Service Command, 1945.
- Brown, W. H. "J58/24-71 Propulsion Integration of the Great Adventure into the Technical Unknown." n.p., n.d.
- Brown, W. J. Status of J35-A-17 Bearing Problem. Wright-Patterson AFB, OH: Powerplant Laboratory, 1950.
- C-5B Engine Warranty Doc Ident#: LD63874. Norton AFB, CA: Air Force Audit Agency, 1985.
- C-5B Engine Warranty. Follow up Audit. Norton AFB, CA: Air Force Audit Agency, 1987.
- California Institute of Technology, Jet Propulsion Laboratory. Research and Development at the Jet Propulsion Laboratory. Los Angeles, CA: California Institute of Technology, 1946.
- Clark, Anne M., and Yawitz, Aubrey A. Fuel Consumption as a Function of Aircraft Engine Design Horsepower. St. Louis, MO: US Army Troop Support and Aviation Materiel Readiness Command, 1980.

- Campbell, Carl E. and Welna, Henry J. Preliminary Evaluation of Turbine Performance with Variable-Area Turbine Nozzles in a Turbojet Engine. NACA RM E52J20, Washington, DC: National Advisory Committee on Aeronautics, 1953.
- Carman, C. T. Development of the Supersonic Compressor Test Facilities at the Arnold Engineering Development Center. AEDC-TR-65-169, n.p. ARO, Inc., 1965.
- Carrillo, Manuel and Fyles, Raymond. F100 Engine Capability Assessment in PACAF: Effects on F-15 Wartime Capability (U). Report prepared for Office of the Director, Operational Requirements & Development Plans, Deputy Chief of Staff, Research and Development, Headquarters. Santa Monica, CA: The Rand Corporation, 1982.
- Carrillo, Manuel J. and Schank, John. Assessment of the Wartime Logistics Support System for Navy Aircraft Engines. Report prepared for Office of the Secretary of the Navy, Navy Department. Santa Monica, CA: The Rand Corporation, 1985.
- Carroll, C. S.; Hill, W. G.; Morrison, J. D.; and Tingus, G. P. J85-GE-13 Altitude Qualification Test. R63SE79, Lynn, MA: General Electric, 1953.
- Cavender, Lt Raymond E. and Katz, Irving. Project Able Applied to Aircraft Engine Development and Procurement. Wright-Patterson AFB, OH: Operations Analysis Office, HQ Air Force Logistics Command, 1970.
- CH-53E Helicopter Department of the Navy. Washington, D.C.: US General Accounting Office, 1975.
- Chamblee, C. E. and Turner, E. E. An Altitude Military Qualification Test of the J85-G3-13 Turbojet. AEDC-TDC-64-27, n.p. ARO, Inc., 1964.
- Chartrand, Major E. H. and Stibich, Marvin A. Project 3066: A Brief History of the Turbine Engine Components Branch From Inception Through 1971. AFAPL-TM-72-10. Wright-Patterson AFB, OH: Air Force Systems Command, Air Force Aero Propulsion Laboratory, 1972.
- Chenoweth, Opic. Propulsion Program Presentation. n.p., 1949.
- Chenoweth, Opic. Research and Development - Power Plant Objectives. 1950.
- Clark, Cdr William E., Jr. and Booth William C. Engine Life Management Simulation Model (ELMSIM) User's Manual. Washington, DC: Naval Air Systems Command, 1975.
- Clarke, R. C.; Waterman, W. F. and Palmreuter, E. Turbine Engine Centrifugal Compressor Technology Program. AFAPL-TR-78-66, Report prepared for Air Force Aero Propulsion Laboratory, Wright-Patterson AFB, OH: Research Manufacturing Company, 1978.
- Cline, S.J.; Fesler, W.; Liu, H. S.; Lovell, R. C. and Shaffer, S. J. Energy Efficient Engine - High Pressure Compressor Component Performance Report. NASA CR-168245, Report prepared for National Aeronautics and Space Administration. Evendale, OH: General Electric, 1983.

- Comprehensive Engine Management System (CEMS). Wright-Patterson AFB, OH: Air Force Logistics Command, 1978.
- Comprehensive Engine Management System (CEMS). Wright-Patterson AFB, OH: Air Force Logistics Command, 1983.
- Comprehensive Engine Management System. Wright-Patterson AFB, OH: Air Force Logistics Command, Office of DCS/Logistics Operations, n.d.
- Compressor Research Facility Program Final Report. TOSD-CRF-FR-71-1, Evendale, OH: General Electric, 1971.
- Compressor Stall Anticipation Technical Proposal. Report prepared for Air Force Aero Propulsion Laboratory, Wright-Patterson AFB, OH. Evendale, OH: General Electric, 1968.
- Conliffe, Calvin H. Demonstration of Direct Lift Components, Vol. I, II, III, IV. AFAPL-TR-71-48, Report prepared for Air Force Aero Propulsion Laboratory, Wright-Patterson AFB, OH. Evendale, OH: General Electric, 1971.
- Cost Effectiveness Study of USAF Jet Engine Warranty Programs: The Alternate Fighter Engine Warranty. Report prepared for Office of DCS/Materiel Management, Wright-Patterson AFB, OH. Washington, DC: Arthur Young and Company, 1986.
- Cote, S. M. Survey and Update of F-14A Mission Profiles for TF30 Engine Usage. Washington, DC: Naval Air Systems Command, 1982.
- Cote, S. M. Survey of P-3C Mission Profiles for Development of the T45-A-14 Duty Cycle. Washington, DC: Naval Air Systems Command, 1983.
- Cote, S. M. Development of a Duty Cycle for the Alternate Engines Proposed for the F-14A. Washington, DC: Naval Air Systems Command, 1984.
- Craig, Lt. Gen. H. A. Report of the Board of Officers to Consider and Make Recommendation on the United States Air Force Engine Program. n.p., 1949.
- Critchfield, Theodore. History of F100 Engine. Edwards AFB, CA: Air Force Flight Test Center, Air Force Systems Command, 1980.
- Curtiss-Wright Corporation. Proposal for The Demonstration of a Light Weight Non-Afterburning Turbojet. Wood-Ridge, N.J.: Wright Aeronautical Division, Curtiss-Wright Corporation, 1961.
- Cyrus, J. D. and Wrublesky, T. R. AV-8B Re-Engining Study. Washington, DC: Naval Air Systems Command, 1982.
- Dahlberg, D. E. and Kitts, D. L. Limited Design, Fabrication and Test of a Small Turbine Advanced Gas Generator (STAGG). USAARDL-TR-76-20A, West Palm Beach, FL: Pratt & Whitney, 1977.
- Dawson, R. E. Rolls-Royce Compressor Technology (Presentation). Report prepared for Air Force Wright Aeronautics Lab, Wright-Patterson AFB, OH. Rolls-Royce, 1983.

- Dean, R. C., Jr. "The Centrifugal Compressor," Creare, Inc., n.p., 1973.
- Dejneka, Roman and Bard, Robert A. Gas Turbine Engine Compressor Stall Margin Acceptance Tests. NAPT-ATD-182, Trenton, NJ: Naval Air Propulsion Test Center, 1970.
- Delucia, R. A., and Salvino, J. T. Rotor Fragment Protection Program: Statistics on Aircraft Gas Turbine Engine Rotor Failures that Occurred in U.S. Commercial Aviation During 1978. NASA CR-165388, Report prepared for National Aeronautics and Space Administration. Trenton, NJ: Naval Air Propulsion Center, 1981.
- Derek, John J. Bristol Siddeley/SNECMA Olympus 593 Powerplant for Concorde. Toledo, OH: Continental Aviation and Engineering Corp., 1965.
- Design Features of the WTF-14 Turbofan Engine. W.A.D. Serial Report No. 1945, Trenton, NJ: Curtiss-Wright Corporation, 1954.
- Development of the Comprehensive Engine Management System-September 1981 through July 1982. Norton AFB, CA: Air Force Audit Agency, 1983.
- Douglas, W. A. and Finn, A. V. Preliminary Flight Qualification Test XT37-NA3, Part I: Engineering Report and Part II. R-190, Toledo, OH: Turbodyne Corporation, 1950.
- Due, H. F., Jr.; Rogo, C.; Kosier, C. L. and Jasas G. B. Advanced Small Axial Turbine Technology. Fort Eustis, VA: Eustis Directorate, US Army Air Mobility Research and Development Laboratory; Toledo, OH: Teledyne CAE, 1977.
- Dumler, Otto; Fejer, A. A. and Fellows, Lucy I. Report on Thermodynamic Analysis of Packard Model PT-205 Engine (Ducted Fan Turbo-Jet). DD-2504, Toledo, OH: Packard Motor Car Company, 1946.
- Effect of Steady Inlet Distortion on the Stability and Performance Characteristics of an Augmented Turbofan Engine. F-111 Systems Project Office, Aeronautical Systems Division, n.d.
- Ellis, Macon C. NACA Investigation of a Jet-Propulsion System Applicable to Flight. Washington, DC: National Advisory Committee on Aeronautics, 1948.
- Elrod, Charles W. and Hyon, Stephen. Self-Sustained Combustion Evaluation of Titanium 6Al-4V in an Aerodynamic Environment. AFAPL-TR-79-2047, Wright-Patterson AFB, OH: Aero Propulsion Laboratory, 1979.
- Elrod, Charles W.; Funkhauser, Merle and Glickstein, Marv. Compendium on Titanium Combustion. AFWAL-TR-82-2014. Wright-Patterson AFB, OH: Aero-Propulsion Laboratory, 1982.
- Engine Advisory Group, Regulations, Correspondence, Miscellaneous. Wright-Patterson AFB, OH: Aeronautical Systems Division, 1960.
- Engine Aircraft, Turbofan: TF30-P-1. JTF10A-20. East Hartford, CT: Pratt & Whitney, 1963.
- Engine Characteristics Charts. n.p., 1946.

Engine Design Report, Books I & II. Evendale, OH: General Electric, 1973.

Engine Meaningful Measures of Merit Methodology. Wright-Patterson AFB, OH: Deputy for Management Sciences, n.d..

Engine Reports by Engine Advisory Group. Wright-Patterson AFB: Aeronautical Systems Division, n.d.

Engine Rework Program at the Naval Air Rework Facility, Norfolk, Virginia and Related Functions Performed by the Naval Supply Center, Norfolk, Virginia. Virginia Beach, VA: Naval Audit Service, Southeast Region, 1984.

Evaluation of Propulsion Management Maintenance Concepts: The TF-34-GE-100 Engine. Report prepared for Air Force Logistics Command, DCS Materiel Management, WPAFB. Washington, DC: Arthur Young and Company, 1986.

Executive Summary of the Integrated Engine Logistics Management System. Quantico, VA: US Naval Weapons Systems Analysis Office, Marine Corps Air Station, 1970.

Expansion and/or Consolidation of Base Level Repair of F-100 Engine. Maxwell AFB, AL: Air Command and Staff College, 1976.

Experimental Engine Projects Charts. Wright-Patterson AFB, OH: Powerplant Laboratory, 1948.

F-110 Engine Tracking System. Gunter AFS, AL: Air University, Air Force Logistics Management Center, n.d.

F101 DFE Promotional Materials. Evendale, OH: General Electric, n.d.

F101 Engine Tests and Reviews Materials F110 Promotional Materials. Evendale, OH: General Electric. n.d.

Faber, Conrad W. Heavy Lift Helicopter Engine Development: Program Design to Cost. 2D Period Award Fee Evaluation Report. St. Louis, MO: Project Manager, Heavy Lift Helicopter, 1975.

Fejer, A. A., and Reigner, Hal M. Aerodynamic Development of Supersonic Compressor Elements for Packard XJ-41 and XJ-49 Type Engine. Report TD-1018. Toledo, OH: Packard Motor Car Company, 1947.

Ficht, W. H. Cast Titanium Compressor Casing. Report prepared for Applied Technology Laboratory, Research and Technology Laboratories. Lynn, MA: General Electric Co., Aircraft Engineer Group, 1979.

Field Survey of Bearing Corrosion in Aircraft Gas Turbine Engines at Naval Air Rework Facility, North Island, San Diego, CA. Trenton, NJ: Naval Air Propulsion Test Center, 1981.

Fighter Aircraft Engine Effectiveness Versus Reconnaissance Aircraft Engine Effectiveness When Both Aircraft Use the Same Engine TMS. Wiesbaden, Germany: US Air Forces in Europe, Lindsey Air Station, n.d.



FSD F110-GE-100 Design Status. Evendale, OH: General Electric, 1982.

FY-62 Year End Report (Propulsion Laboratory Summary). Wright-Patterson AFB, OH: Aero Propulsion Laboratory, 1962.

Galliher, Herbert P., and Wilson, Richard C. Aircraft Engines: Demand Forecasting and Inventory Redistribution. Report prepared for Air Force Wright Aeronautical Laboratories, Air Force Systems Command, Wright-Patterson AFB, OH. Ann Arbor, MI: University of Michigan, 1975.

King, Paul A. and Givens, Robert L. Investigation of Factors Controlling Engine Scheduled Overhaul - T53/T55. Report prepared for Eustis Directorate, US Army Air Mobility Research and Development Laboratory. Stratford, CT: AVCO Lycoming Engine Group, 1977.

Garanto, Albert L. Logistic Performance Data Book for C-130E Propulsion System. Robins AFB, GA: Warner Robins Air Materiel Area, 1973.

Garrett Mixed-Flow Compressor and Fan Technology. Presentation prepared for Air Force Wright Aeronautics Laboratory, Wright-Patterson AFB, OH. Phoenix, AZ: Garrett Corporation, 1983.

Garrett/AiResearch Variable Cycle Engine Presentation. Phoenix, AZ: Garrett Corporation, 1975.

Gas Turbines Progress Meeting, Washington, D.C., 1959. Proceedings. Washington, DC: U. S. Government Printing Office, 1959.

GEI History. Lynn, MA: General Electric, 1964.

General Electric Company The Advanced J47 Turbo-Jet Engine: Prospectus. West Lynn, MA: General Electric Aircraft Gas Turbine Division, 1949.

General Electric Company. Aircraft Gas Turbine Data Book. Schenectady, NY: General Electric Company, 1954.

General Electric Company. Engine Summary. Cincinnati, OH: Flight Propulsion Division, General Electric Company, 1959.

General Electric T64 Turboprop for AX. Evendale, OH: General Electric, n.d.

Glenny, D.E. An Evaluation of Engine Performance Assessment Procedures for the Lycoming T53 Engine as Installed in the Iroquois Helicopter. Melbourne, Australia: Defense Science and Technology Organization, Aeronautical Research Labs, 1982.

Glickstein, M. R.; Baricevich, R. L.; Wilkoff, R. and Bassett, R. L.; Combustion Analysis Program. AFWAL-TR-81-2092. Report prepared for Air Force Aero-Propulsion Laboratory, Wright-Patterson AFB, OH. West Palm Beach, FL: Pratt & Whitney, 1981.

Grega, 1st Lt George E. Summary of the J47-GE-17 Turbojet Engine History. Wright-Patterson AFB, OH: Power Plant Laboratory, 1952.

- Grissmer, David W., and Kim, Kwan H. Study of the Turbine Engine Industry. Report prepared for Deputy Under Secretary of Defense Research and Engineering. Bethesda, MD: Mathtech, Inc., 1978.
- Grissmer, David W. Study of the Turbine Engine Industry. Report prepared for Deputy Under Secretary of Defense Research and Engineering. Bethesda, MD: Mathtech Inc., 1978.
- Griswold, R. H. GE Opening Comments: Meeting on F110 Engine Presentation. Evendale, OH: General Electric, 1982.
- Gustafson, 2nd Lt W. A. Historical Developoment Study of US Air Force Turbojet and Turboprop Engines. WCLP-53-19. Wright-Patterson AFB, OH: Power Plant Laboratory, 1952.
- Hamer, M. J. Extension of Thrust Computing System Technology to the F100 Engine. Algorithm Development and System Error Analysis. Report prepared for Aeronautical Systems Division, Air Force Systems Command, Wright-Patterson AFB, OH. Ottawa, Canada: Control Data Canada Ltd., Computing Devices, 1978.
- Hanson, H. W.; Balke, R. W. ; Edwards, B. D.; Riley, W. W. and Downs, B. D. Engine/Airframe/Drive Train Dynamic Interface Documentation. Report prepared for Applied Technology Laboratory, Research and Technology Laboratories. Fort Worth, TX: Bell Helicopter, 1978.
- Harris, J. A., Jr., and White, R. Retirement for Cause of USAF TF30 Engine Components. Application Study. Report prepared for Air Force Wright Aeronautical Laboratories, Air Force Systems Command, Wright Patterson AFB, OH. West Palm Beach, FL: United Technologies, Pratt & Whitney Aircraft Group, Government Products Division, 1983.
- Hasen, Capt. Gerald A.; Scheffel, Gary A.; Southwick, Robert; and Kelly, Gary L. Historical Parametric Study of Performance and Weight for Selected US Air Force Gas Turbine Engines. ENFP-TM-76-3. Wright-Patterson AFB, OH: Performance Analysis Branch Propulsion Directorate of Flight Systems Engineering, Aeronautical Systems Division, 1976.
- Heaston, Robert J. Meeting on Propulsion System Development of High Energy Fuels. Wright-Patterson AFB, OH: Power Plant Laboratory, 1956.
- Hemsley, Col. R. T. and Simpson, E. C. The Air Force Integrated Gas Turbine Engine Program. A Presentation. Wright-Patterson AFB, OH: Aero Propulsion Laboratory, 1964.
- Hennecke, Dietmar. International Symposium on Air Breathing Engines, 3d. Munich, 1976. Proceedings of the Third International Symposium on Air Breathing Engines, Munich, Germany, 7-12 March 1976. Koln: Deutsche Gesellschaft fur Luft und Raumfahrt, DGLR-Fachbuchreihe, 1976.
- Herzig, Howard Z., and Hansen, Arthur G. A Survey of Unclassified Axial-Flow-Compressor Literature. NACA RM E55H11. Washington, DC: National Advisory Committee on Aeronautics, 1955.
- High Speed Aerodynamics and Jet Propulsion. Princeton, N.J.: Princeton University Press, 1955.

Historical Reports for the Turbine Engine Components Branch. Wright-Patterson AFB, OH: Aero Propulsion Laboratory, n.d.

History of Power Plant Development Program, 1 July 1949 to 1 January 1950. Wright-Patterson AFB, OH: Power Plant Laboratory, 1950.

History of Wright Air Development Center, July-Dec. 1956, Chapter IX The J79 Turbojet Engine. 57WC-901-6. Wright-Patterson AFB, OH: Aeronautical Research and Development Center, Historical Branch, 1956.

History of Wright Air Development Center January-June 1957, Chapter VI and Supporting Documents. 57WC-6810-6. Wright-Patterson AFB, OH: Aeronautical Research and Development Center, Historical Branch, 1957.

Huben, C. A. and Metsker, B. L. Low Cost Expendable Engine. Report prepared for Aero Propulsion Laboratory, Air Force Systems Command, Wright-Patterson AFB, OH. Walled Lake, MI: Williams Research, 1978.

Hunsaker, Eugene and Carrington, H. Axial Flow Compressor Design Report I. DF85289. Lynn, MA: General Electric, 1945.

Hunsaker, E. L. and Carrington, H. Axial Flow Compressor Design Report II. DF85289. Lynn, MA: General Electric, 1946.

III J53-1A Milestone Chart. WADC TR 53-467. Wright-Patterson AFB, OH: Wright Aeronautical Development Center, 1953.

Impact of Fighter Aircraft Jet Engine Malfunctions on the Air Force. Wright-Patterson AFB, OH: Directorate of Flight Safety Research, 1953.

Initial Operational Evaluation of the AH-1T Attack Helicopter Engine Enhancement Program. Washington, DC: Office of the Chief of Naval Operations, Navy Department, 1984.

Integrated Engine Logistics Model Application, Phase 1. Quantico, VA: US Naval Weapons Systems Analysis Office, Marine Corps Air Station, 1970.

International Civil Aviation Organization, Airworthiness Committee. Provisional Acceptable Means of Compliance: Turbine Engines -- Type Tests. ICAO Circular 51-AN/46/2. Montreal: International Civil Aviation Organization, 1967.

Inventory Management of Navy Aircraft Engines. Report prepared for Office of the Assistant Secretary of Defense, Installations and Logistics. Washington, DC: Logistics Management Institute, 1969.

Is the Joint Air Force/Navy Alternate Engine Program Workable? GAO Thinks not as Presently Structured. Washington, DC: U.S. General Accounting Office, 1980.

J85-GE-21 Afterburning Turbojet, F-5B Aircraft Modification and Engine Flight Test Programs. Evendale, OH: General Electric, 1969.

- Jamison, R. R., and Lane, R. J. Engines for Supersonic Airliners Lecture. London: Bristol Siddeley, 1960.
- Johnson, Ribing A., and Bullock, Robert O. Aerodynamic Design of Axial-Flow Compressors. NACA RM E56B03(a)(b), Washington, DC: National Advisory Committee on Aeronautics, 1956.
- Joint Technology Demonstrator Engine Semi-Annual Report. Report prepared for Air Force Wright Aeronautical Lab, Wright-Patterson AFB, OH. Aero Propulsion Laboratory, 1983.
- JT10D-232 Engine. West Palm Beach, FL: Pratt & Whitney, 1980.
- Kaminski, J.L., and Caddy, M.J. T700-GE-401 Performance Analysis and Comparison with the Manufacturer's Quoted Performance. Washington, DC: Naval Air Systems Command, 1984.
- KC-135 Modernization Study. V. 2 - Supplementary Engine/Airplane Performance and CFM56 Cost Data. Report prepared for Aeronautical Sytems Division, Air Force Systems Command, Wright-Patterson AFB, OH. Wichita, KS: The Boeing Company, 1976.
- Kerns, Capt Waldon R. An Analysis and Evaluation of Use of Economic Theory in Aircraft Engine Repair-Discard Decisions. Wright-Patterson AFB, OH: Air Force Business Research Management Center, 1978.
- Ketola, H. N., and Kischer, D. L. Systems Study of a Compressor Research Test Facility. AFAPL-TR-67-86, Report prepared for Air Force Aero-Propulsion Laboratory, Wright-Patterson AFB, OH. Evendale, OH: General Electric, 1967.
- Kimzey, William F., and Lazalier, G. R. Development of Short-Duration Test Techniques and Optional Test Matrix Planning Technique for Aircraft Gas Turbine Engine. AEDC-TR-77-42, Tullahoma, TN: Arnold Engineering Development Center, 1978.
- King, Paul A., and Givens, Robert L. Investigation of Factors Controlling Engine Scheduled Overhaul - T53/T55. Report prepared for Eustis Directorate, US Army Air Mobility Research and Development Laboratory. Stratford, CT: AVCO Lycoming Engine Group, 1977.
- Knudsen, B. E. Reduced-Cost Turbine Engine Concepts (U). Part 2, Phase II (Industry Version) (U). Report prepared for Air Force, Aero Propulsion Laboratory, Air Force Systems Command, Wright-Patterson AFB, OH. Phoenix, AZ: Airesearch Manufacturing Co. of Arizona, 1980.
- Kovacik, V. P. and Simpson E. C. Powerplant Considerations for a Long Range Bomber. MCREXP-426-284, Wright-Patterson AFB, OH: Powerplant Laboratory, 1950.
- Kovacik, V. P. Relative Performance of Twenty Proposed Interceptor Engines. MCREXP-426-285, Wright-Patterson AFB, OH: Powerplant Laboratory, 1950.
- Kovacik, V. P. Useful Information for Engine Performance Studies. WCLP-52-80, Wright-Patterson AFB, OH: Wright Aeronautical Development Center, 1952.
- Kovacik, V. P. Design Point Characteristics of the Ducted Fan Turbojet Engine. MCREXP-506-387, Wright-Patterson AFB, OH: Powerplant Laboratory, 1950.

- Krakowski, L. S. Case History, Diagnostic Vibration Analysis, T34 Turbo-Prop Engines. Kelly AFB, San Antonio, TX: Chemical and Materials Laboratory, n.d.
- Kruse, W. Karl. DOD Aircraft Engine Requirements Study. Philadelphia, PA: US Army Logistics Management Center (USAMC Inventory Research Office), Frankford Arsenal, 1972.
- Lail, G. G. YJ101-G3-100 Engine Design Report. R73AEG11, Evendale, OH: General Electric, 1973.
- Large, J. F. Estimating Aircraft Turbine Engine Costs. Report prepared for Office of the Director, Development Planning, Deputy Chief of Staff, Research and Development, Headquarters. Santa Monica, CA: The Rand Corporation, 1970.
- Law, Herbert C. A Computer Program for Variable Geometry Single-Stage Axial Compressor Test Data Analysis. AFWAL-TR-81-2078, Wright-Patterson AFB, OH: Air Force Aero Propulsion Laboratory, 1981.
- Lazalier, G. R.; Palmer, J. D. and Harper, R. E. Altitude Development of the F100-PW-100 Turbofan Engine Phase IX. AEDC-TR-75-70, Tullahoma, TN: Arnold Engineering Development Center, 1975.
- Leamy, K. R.; Chung, K. and Reynolds, G. G. A Turbine Engine Aerodynamic Model for In-Stall Transient Simulation. NASA CR-175011, Report prepared for National Aeronautics and Space Administration. Evendale, OH: General Electric.
- Lefebvre, A. H. Fuel Effects on Gas Turbine Combustion. Report prepared for Air Force Wright Aeronautical Laboratories, Air Force Systems Command, Wright-Patterson AFB, OH. Lafayette, IN: Purdue University, 1983.
- Lentz, G. L. Model Specificaiton Engine Aircraft Turbo Jet: XJ-37-MN-1 Menasco Manufacturing Co., Model L-1000-1. MM 25001, Menasco Manufacturing Company, 1947.
- Lieblein, Seymour. Review of High-Performance Axial-Flow-Compressor Blade-Element Theory. NACA RM E53L22, Washington, DC: National Advisory Committee on Aeronautics, 1954.
- Little, John N., and Rock, Stephen M. Nonrecoverable Stall Investigation. Vol. I & II. AFWAL-TR-81-2011, Report prepared for Air Force Aero-Propulsion Laboratory, Wright-Patterson AFB, OH. n.p. Systems Control Inc., 1981.
- Logan, Major John W. Jumo Jet Power Plants from Me262. Report Number 390. European Theater of Operations: Headquarters European Theater of Operations, London: Air Technical Section, 1944.
- Ludwig, Gary R.; Nenni, Joseph P., and Rice Roy S., Jr. An Investigation of Rotating Stall Phenomena in Turbine Engine Compressor. AFAPL-TR-70-26, Report prepared for Air Force Aero-Propulsion Laboratory, Wright-Patterson AFB, OH. Ithica, NY: Cornell Aeronautical Laboratory, Inc., 1970.
- Maintainability and Supply Support of the F100 Engine. Follow-up Audit. Norton AFB, CA: Air Force Audit Agency, 1985.

- Martin, Willie Rae. SAAMA Program for Prevention of Foreign Object Damage, 1 September - 1 May 1962. Historical Monograph Number 11. Kelly AFB, San Antonio, TX: Headquarters San Antonio Air Material Area, 1962.
- Martin, Willie Rae. Turboprop Engine Overhaul Program, 10 February 1955 - 31 December 1960. Historical Monograph Number 8. Kelly AFB, San Antonio, TX: Headquarters San Antonio Air Material Area, 1961.
- Matthesen, Dr. James P. Statistical Calculation and Analysis for the Logistics of Engine Removal (SCALER) Methodology. Washington, D.C.: Naval Air Systems Command, Naval Weapons Engineering Support Activity, 1975.
- Mauch, H.; Oldakowski, T. and Weldon, D. High Bypass Turbofan Component Development Phase II Detailed Design. AFAPL-TR-79-2064, Report prepared for Air Force Aero Propulsion Laboratory, Wright-Patterson AFB, OH. Evendale, OH: General Electric, 1979.
- McCasland, Mike; Simpson, Jack; Foster, Tom; Weber, Dave; Wood, Roger; Shoemaker, Bill, and Glaser Fred. Reduced Cost Turbine Engine Concepts (U). Report prepared for Air Force Wright Aeronautical Laboratories, Air Force Systems Command, Wright-Patterson AFB, OH. Cincinnati, OH: General Electric Company, Aircraft Engine Group, 1984.
- McGaffey, Edna S. J57 Engine Management: 1 July 1957 - 30 June 1960. Historical Monograph Number 6. Kelly AFB, San Antonio, TX: Headquarters San Antonio Air Material Area, 1970.
- McKinney, Capt John S. Simulation of Turbofan Engine Parts I & II. AFAPL-TR-67-125, Wright-Patterson AFB, OH: Air Force Aero-Propulsion Laboratory, WPAFB, 1967.
- McVeigh, Donald R. History of Wright Air Development Center, Jan-June 1959-Vol. 11A: Turbofan Engine Development, 1953-1960. Wright-Patterson AFB, OH: Aeronautical Systems Division Historical Branch, 1960.
- Meeting, Aircraft and Missiles Engine Advisory Group (2 folders). Wright-Patterson AFB, OH: Aeronautical Systems Division, n.d.
- Merrill, Walter C. The Application of the Routh Approximation Method to Turbofan Engine Models. NASA TM X-73523, Washington, DC: National Aeronautics and Space Administration, 1977.
- Messerlie, R. L. and Cox, D. M. Study of Variable Turbine Geometry for Small Gas Turbine Engines. 67-19, Report prepared for U.S. Army Aviation Materials Lab. Indianapolis, IN: Allison GMC, 1967.
- Methods of Acquiring and Maintaining Aircraft Engines. Report prepared for Office of the Assistant Secretary of Defense, (Installations and Logistics). Washington, DC: Logistics Management Institute, 1972.
- Michaels, Charles M. Status Review of J83-R-3 and J85-GE-3 Turbojet Engine Programs. Washington, DC: J83-J85 Project Review Team, 1956.
- Mihalek, Edward W. Quality Assurance Testing of a Newly-Overhauled Pratt and Whitney Aircraft 352-P-8A Turbojet Engine. Trenton N.J.: Naval Air Propulsion Test Center, 1971.

Minimum Essential Engine Tracking System. Gunter AFS, AL: Air Force Logistics Management Center, n.d..

Misenko, Albert E. and Pollock, Philip H. Engineering History, 1917-1918 McCook Field to the Aeronautical Systems Division. Wright-Patterson AFB, OH: History Office, Aeronautical Systems Division, 1979.

Model Designations of U.S.A.F. Aircraft Engines, Ninth Edition. AMC MCRE, NO.6, Wright-Patterson AFB, OH: Air Material Command, 1949.

Model Specification E1208 Engine, Aircraft, Turbojet J101/J7A1f. Evendale, OH: General Electric, 1974.

Model Specification Engine, Aircraft, Turbojet, J69-T-41, Continental Model 356-29. Toledo, OH: Continental Aviation and Engineering Corp., 1965.

Model Specification Engine, Aircraft, Turbojet: J79 GE-15. Evendale, OH: General Electric, 1962.

Muckstadt, John A. NAVMET: A Four-Echelon Model for Determining the Optimal Quantity and Distribution of Navy Spare Aircraft Engines. Washington, D.C.: Naval Weapons Engineering Support Activity, 1975.

National Aeronautics and Space Administration, Lewis Research Center. Aircraft Propulsion. Proceedings of a Conference held at NASA Lewis Research Center, Cleveland, Ohio, November 18-19, 1970 Washington, DC: Scientific and Technical Information Office, National Aeronautics and Space Administration, 1971.

National Aeronautics and Space Administration, Lewis Research Center. Aeronautical Propulsion. Proceedings of a Conference Held at Lewis research Center in Cleveland, Ohio, on May 13 and 14, 1975. Washington, DC: Scientific and technical Information Office, National Aeronautics and Space Administration, 1975.

National Aeronautics and Space Administration. Tactical Aircraft Research and Technology V.1, Part 2 Washington, DC: National Aeronautics and Space Administration, 1981.

National Aeronautics and Space Administration. Tactical Aircraft Research and Technology V.1, Part 1 Washington, DC: National Aeronautics and Space Administration, 1981).

Naval Air Rework Facility, Marine Corps Air Station, Cherry Point, North Carolina. Covering Functional Area: Engine Rework Program. Virginia Beach, VA: Naval Audit Service, Southeast Region, 1981.

Need to Prevent Department of Defense From Paying Some Costs for Aircraft Engines That Contractors Should Pay. Washington, D.C.: US General Accounting Office, 1977.

Needham, James F., and Banerjee, Debashis. Engine/Airframe/Drive Train Dynamic Interface Documentation. Report prepared for Applied Technology Laboratory, Research and Technology Laboratories (AVRADCOM). Culver City, CA: Hughes Helicopters, Division of Summa Corporation, 1978.

- Nelson, J. R. An Approach to the Life-cycle Analysis of Aircraft Turbine Engines. Report Prepared for Office of the Director, Operational Requirements & Development Plans, Deputy Chief of Staff, Research and Development, Headquarters, USAF. Santa Monica, CA: The Rand Corporation, 1979.
- Nelson, J. R., and Timson, F. S. Relating Technology to Acquisition Costs: Aircraft Turbine Engines. Report prepared for Office of the Director, Development Planning, Deputy Chief of Staff, Research and Development, Headquarters. The Rand Corporation, 1974.
- Nelson, J. R. Life Cycle Analysis of Aircraft Turbine Engines, Executive Summary. Report prepared for Office of the Director, Operational Requirements & Development Plans. Santa Monica CA: The Rand Corporation, 1977.
- Nelson, J. R. Performance/Schedule/Cost Tradeoffs and Risk Analysis for the Acquisition of Aircraft Turbine Engines: Application of R-1288-PR Methodology. Washington, D.C.: Office of the Director, Operational Requirements & Development Plans, Deputy chief of Staff, Headquarters; Santa Monica CA: The Rand Corporation, 1975.
- Nenni, J. P.; Homicz, G. F., and Ludwig, G. R. Rotating Stall Investigations, Vol. I & II. AFWAL-TR-83-2002, Report prepared for Air Force Aero-Propulsion Laboratory, Wright-Patterson AFB, OH. Arvin/Calspan, 1983.
- Night-in-Weather Attack Major Thrust Decision Process for 88 POM Proposals. Wright-Patterson AFB, OH: Air Force Wright Laboratory, WPAFB, 1985.
- Noah, J. W.; Daniels, J. M.; Groemping, R. A.; Hutchings, S.; Johnson, H. R., and Moyer, Rosemarie. Aircraft Cost Handbook, Cost and Characteristic Data Engines. Report prepared for Office of the Chief of Naval Operations, Navy Department, n.d., 1977.
- North Atlantic Treaty Organization, Advisory Group for Aerospace Research and Development, Propulsion and Energetics Panel. Advanced Components for Turbojet Engines. Papers presented at the 32nd Meeting of the Propulsion and Energetics Panel of AGARD, held in Toulouse, France, 9-13 September 1968. AGARD Conference Proceedings No. 34. Neuilly-sur-Seine, France: North Atlantic Treaty Organization, Advisory Group for Aerospace Research and Development, 1968.
- North Atlantic Treaty Organization, Advisory Group for Aerospace Research and Development, Propulsion and Energetics Panel. Advanced Technology for Production of Aerospace Engines. Papers presented at the 35th Meeting of the AGARD Propulsion and Energetics Panel, London, 6-10 April 1970. AGARD Conference Proceedings No. 64. Neuilly-sur-Seine, France: North Atlantic Treaty Organization, Advisory Group for Aerospace Research and Development, 1970.
- North Atlantic Treaty Organization, Advisory Group for Aeronautical Research and Development, Combustion and Propulsion Panel. Combustion and Propulsion: High Mach Number Air-Breathing Engines. Edited by Andre L. Jaumotte, Arthur H. Lefebvre and Addison M. Rothrock. Summaries of the 4th AGARD Colloquium, Milan, 4-8 April 1960. Report prepared for Advisory Group for Aeronautical Research and Development, North Atlantic Treaty Organization, New York, NY: Pergamon Press, 1961.



- North Atlantic Treaty Organization, Advisory Group for Aeronautical Research and Development, Combustion and Propulsion Panel. Combustion and Propulsion: High-Temperature Phenomena. Edited by Robert P. Hagerty et al. Summaries of the 5th AGARD Colloquium, Braunschweig, 9-13 April 1962. Report Prepared for Advisory Group for Aeronautical Research and Development, North Atlantic Treaty Organization. New York, NY: Macmillan, 1963.
- North Atlantic Treaty Organization Advisory Group for Aerospace Research and Development. Engine Cyclic Durability by Analysis and Testing. Neuilly-Sur-Seine, France: n.p., 1984).
- Novick, A. S. Advanced Turbine Engine Gas Generator (ATEGG) Program (U). V. 2 -Gas Generator Structural Analysis Compressor Design, and Hardware Fabrication (U). Report prepared for Air Force Wright Aeronautical Laboratories, Air Force Systems Command, Wright-Patterson AFB, OH. n.p., 1984.
- Nusbaum, William J., and Wasserbauer, Charles A. Experimental Investigation of a High Subsonic Mach Number Turbine Having a 32-Blade Rotor with Low Suction-Surface Diffusion. NASA MEMO 10-20-58E. Washington, DC: National Aeronautics and Space Administration, 1958.
- O'Malley, T. J., and Glass, David V. Depot Support of Gas Turbine Engines. Report prepared for Assistant Secretary of Defense (Manpower, Reserve Affairs and Logistics). Washington, DC: Logistics Management Institute, 1981.
- Oates, Gordon C. The Aerothermodynamics of Aircraft Gas Turbine Engines. AFAPL-TR-78-52, Report prepared for Air Force Aero Propulsion Laboratory, Wright-Patterson AFB, OH. Seattle, WA: University of Washington, 1978.
- On-Condition Monitoring (OCM) J-85 Engines. Randolph AFB, TX: Air Training Command, n.d.
- Organizational Charts, Turbine Engine Branch. Wright-Patterson AFB, OH: Aero Propulsion Laboratory, n.d.
- Organizational Documents, Turbine Engine Division. Wright-Patterson AFB, OH: Aero Propulsion Laboratory, n.d.
- Origin of AF Aero Propulsion Laboratory. Wright-Patterson AFB: Aero Propulsion Laboratory, n.d.
- Overhaul Costs of Turbo-Jet Engines. Air Material Command, 1949.
- Paszek, Lawrence J. United States Air Force History - A Guide to Documentary Sources. Washington, D.C.: U.S. Government Printing Office, n.d..
- Perry, Hon William J. The FY 1979 Department of Defense Program for Research Development and Acquisition. Washington, DC: Secretary of Defense Research and Engineering, 1978.
- Perry, Robert. American Styles of Military R & D. Santa Monica, CA: The Rand Corporation, 1979.
- Personnel Rosters, Propulsion Laboratory and Turbine Engine Branch. Wright-Patterson AFB, OH: Aero Propulsion Laboratory, 1960-63.

- Pianko, M. Modern Methods of Testing Rotating Components of Turbomachines. AGARD graph No. 167. Washington, DC: National Armament Treaty Organization Advisory Group for Aerospace Research and Development, 1972.
- Pinkel, B. and Nelson J. R. A Critique of Turbine Engine Development Policy. Rm-6100-DR, Report prepared for Office of the Director, Development Planning, Deputy Chief of Staff, Research and Development, Headquarters. Santa Monica, CA: The Rand Corporation, 1970.
- Pinkel, I. I. Origin and Prevention of Crash Fires in Turbojet Aircraft. National Advisory Committee for Aeronautics Report No. 1363. Washington, DC: U.S. Government Printing Office, 1958.
- Plant Modernization and Jet Engine Overhaul Management. Maxwell AFB, AL: Air Command and Staff College, 1976.
- Poast, Francis E. Survey for Adaption of Commercial Engine Component Repairs to Military Engines. Wright-Patterson AFB, OH: Pram Program Office, 1978.
- Potential for Savings by Reduction of Aircraft Engine Procurement. Washington, DC: US General Accounting Office, 1969.
- Power Jets Patents: A Summary. London, England: Power Jets Research and Development Limited, 1949.
- Power Plant Laboratory Semi-Annual Management Summary Period 30 June 1955. Wright-Patterson AFB, OH: Power Plant Laboratory, 1955.
- Pratt and Whitney Aircraft Marketing Department. General Turbine Inform. on Letter No. 4: Engine Listings Manual. East Hartford, CT: Pratt and Whitney Aircraft Group of United Technologies Corporation, 1967.
- Preliminary Model Specification Engine, Aircraft, Turbojet Continental Model 456-2. Toledo, OH: Continental Aviation and Engineering Corporation, 1965.
- Preliminary Model Specification Engine, Aircraft, Turbojet: J79/J1B. Evendale, OH: General Electric, 1963.
- Procurement of Aircraft Engine Spare Parts. Arlington, VA: DOD Inspector General, 1984.
- Production of Gas Turbine Engines. Walled Lake, MI: Williams Research Corporation, n.d.
- Progress Report on Jet Propulsion Unit Navy Contract No. 97294. Champaign, IL: Allis Chalmers, 1942.
- Proposal for the Demonstration of a Lightweight Non-Afterburning Turbojet. Lindhurst, NJ: Curtiss-Wright Corporation, 1961.
- Propulsion Presentation to Scientific Advisory Board on: Rotating Engines, Non-Rotating Engines, Special Fuels (Presentation). Wright-Patterson AFB, OH: Aero Propulsion Laboratory, 1956.
- Propulsion Program Presentation. Wright-Patterson, AFB, OH: Powerplant Laboratory, 1948.

Propulsion Projects Charts. Wright-Patterson, AFB, OH: Powerplant Laboratory, 1954.

PT6A-287 Engine Descriptive Notes. Longveuil, PA: United Aircraft of Canada Limited, 1971.

Pujol, N. P., Jr. and Donahue, B. B. Altitude Development Test in Support of the F100/Engine Model Derivative (EMD) Program (Engine S/N FX227-17). Wright-Patterson AFB, OH: Air Force Systems Command, Aeronautical Systems Division, 1986.

Quick-Reaction Report on the Multiyear T700 Engine Contract. Arlington, VA: DOD Inspector General, 1986.

Radcliffe, W. F., and Matlago, J. T. L-1000S Propeller Drive Gas Turbine Estimated Performance Characteristics. P-134, Los Angeles, CA: Menasco Manufacturing, 1946.

RB.211 Technical Description. London, England: Rolls-Royce, 1971.

Reclamation of Excess Aircraft Engines. Norton AFB, CA: Air Force Audit Service, 1984.

Recommended Funding Summary FY80-86. Wright-Patterson AFB, OH: Engine Advisory Group, 1986.

Recommended Propulsion Program. 55-WCLPO-8478, Wright-Patterson AFB, OH: Wright Aeronautical Development Center, 1955.

Redding, A. H. Future Forms of Aviation Gas Turbines. Pittsburgh, PA: Westinghouse Electric Corporation, 1947.

Report of the Panel on Fuels and Propulsion. Panel on Fuels and Propulsion. Washington, DC: Scientific Advisory Board to the Chief of Staff, USAF, 1950.

Report on the Review of the F-14 Engine Improvement Program. Arlington, VA: Defense Audit Service, 1980.

Reports Regarding J85 Systems Analysis Operation (1 binder). Evendale, OH: J85 Systems Analysis Operation, 1961.

Report of Turbo-Jet "Campini 10". Tucker Corporation, 1948.

Requirements Computations for Spare Aircraft Engines. Report prepared for Assistant Secretary of Defense (Manpower, Reserve Affairs and Logistics). Washington, DC: Logistics Management Institute, 1979.

Research and Development Contribution to Aviat. Progress (RADCAP)- Executive Summary, Vol. I: Summary Report, Vol. II: Appendices - 1 thru 9. DoD-NASA-DoT, n.p., 1972.

Research, Development, Test and Evaluation Technical Area Description (U). Washington, D.C.: Office of the Director of Defense Research and Engineering, 1976.

- Review of the Aeropropulsion System Test Facility Construction Project. Arlington, VA: Defense Audit Service, 1982.
- Review of the Alternate Fighter Engine Competition. Washington, DC: US General Accounting Office, 1984.
- Review of the Management of the J-52 Aircraft Engine. Washington, DC: Naval Audit Service Capital Region, 1985.
- Richardson, D. A., and Alwang, J. R. Engine/Airframe/Drive Train Dynamic Interface Documentation. Report prepared for Applied Technology Laboratory, Research and Technology Laboratories (AVRADCOM). Philadelphia, PA: The Boeing Vertol Company, 1978.
- Rolls-Royce Advanced Technology. London, England: Rolls-Royce, 1981.
- Rolls-Royce Advanced Technology. London, England: Rolls-Royce, 1982.
- Rolls-Royce Gas Turbine Power. London, England: Rolls-Royce, 1982.
- Ross, D. M. Preliminary Predictions on 10-20 Year Turbine Engines. Wright-Patterson AFB, OH: Powerplant Laboratory.
- Schaefer, John W.; Sagerser, David A. and Stakolich, Edward G. Dynamics of High-Bypass-Engine Thrust Reversal Using a Variable-Pitch Fan. NASA TM X-3524, Washington, DC: National Aeronautics and Space Administration, 1977.
- Schmidt, Marvin F., and Stibich, Marvin A. A Multistage Axial Flow Compressor Development Trend. AFAPL-TR-67-38, Wright-Patterson AFB, OH: Air Force Aero-Propulsion Laboratory, 1967.
- Schulmeister, L. F.; Law, C. C., and Hostetler, J. D. Machine Casting of High Temperature Alloys for Turbine Engine Components. Report prepared for US Army Materials and Mechanics Research Center. West Palm Beach, FL: United Technologies Corp., Pratt & Whitney Aircraft Group, Government Products Division, 1977.
- Schwartz, V. D. Activities of Pratt & Whitney Aircraft Compressor Group. East Hartford, CT: Pratt & Whitney, n.d.,.
- Scott, H. C. Index of U.S. Naval Aircraft, Air-Launched Guided Missiles, and Their Propulsion Systems. Washington, DC: Naval Air Systems Command, 1975.
- Seely, George H. Turbine Engine Technology and Cost, n.p., n.d.
- Selected Aspects of Modification and Logistics Program Supporting the C-141 Aircraft and its TF-33 Engine. Follow-up Audit. Norton AFB, CA: Air Force Audit Agency, 1985.
- Selected Maintainability and Supply Support Aspects of the F100 Engine Program. Norton AFB, CA: Air Force Audit Agency, 1983.

Sellers, James F.; Hart, Clint E. and Mihanloew, James R. Analysis of Control Concepts for Gas and Shaft-Coupled V/STOL. NASA TM X-73611. Washington, DC: National Aeronautics and Space Administration, 1977.

Shekleton, J. R. Report on Study of Combustion Effects on Particle Dust Ingested into an Aero Gas Turbine. DNA-TR-82-205, Report Prepared for Defense Nuclear Agency. San Diego, CA: Turbomach, 1983.

Shisko, Robert. Technological Change Through Product Improvement in Aircraft Turbine Engines. Washington, DC: Office of the Director, Development Planning, 1973.

Short History of Dr. Hans Von Ohain's Jet Engine Development. n.p., 1978.

Silvern, David H. and Sliuka, William R. Analytical Investigation of Turbines with Adjustable Stator Blades and Effect of These Turbines on Jet-Engine Performance. NACA RM E50E05, Washington, DC: National Advisory Committee on Aeronautics, 1950.

Simmons, Capt Michael W., and Neumann, Curtis E. Engine Diagnostic Effectiveness and Trending. Wright-Patterson AFB, OH: Management Sciences Office, 1977.

Society of Automotive Engineers. Advances in Aerospace Propulsion. Proceedings of the Aerospace Congress & Exposition, Long Beach, California, October 15-18, 1984. SAE Publication No. SP-594. Warrendale, PA: Society of Automotive Engineer, 1984.

Spare Module Requirements for the TF39 Engine. Norton AFB, CA: Air Force Audit Agency, 1985.

Sparkman, Capt. James L. Historical Development Study of US Air Force Turbojet and Turboprop Engines. WADC 57-351. Wright-Patterson AFB, OH: Powerplant Lab, 1956.

Special Integrated Logistics Support Lessons Learned. T700-GE- 700 Engine - A Logistics Success Story. Alexandria, VA: US Army Material Command, 1984.

Specification: Lockheed Jet Power Plant. Burbank, CA: Lockheed, 1943.

Stibich, Marvin A. Cost And Scheduling Summary for Several Large Turbine Engine. APT-TM-67-10. Wright-Patterson AFB, OH: Air Force Aero-Propulsion Lab, 1967.

Stibich, Marvin A. History of Two Demonstrator Engine Programs. APTC-TM-67-17. Wright-Patterson AFB, OH: Air Force Aero-Propulsion Lab, 1967.

Stibich, Marvin A. Project 3066, Turbine Engine Propulsion, The Early Years 1946-1960. AFAPL-TBC-TM-72-12. Wright-Patterson AFB, OH: Air Force Aero Propulsion Laboratory, 1972.

Stibich, Marvin A. Project 3066: Turbine Engine Propulsion, The Early Years 1946 - 1960. Technical Memorandum AFAPL-TBC-TM-72-12. Wright-Patterson AFB, OH: Air Force Systems Command, Air Force Aero Propulsion Laboratory, Turbine Engine Division, 1972.

- Stiglic, Paul M.; Schmidt, Ross D. and Delio, Gene J. Experimental Investigation of Acceleration Characteristics of a Turbojet Engine Including Regions of Surge and Stall for Control Applications. NACA RM E54H24. Washington, DC: National Advisory Committee on Aeronautics, 1954.
- Suplee, Henry Harrison. The Gas Turbine: Its Feasibilities as an Aviation Motor. Report prepared for presentation to the Naval Aviation Board on 23 March, 1918. Washington, DC: Henry Harrison Suplee, 1918.
- T-53-Gas Turbine Engine. Stratford, CT: AVCO, Textron Lycoming, n.d.
- T53-L-13B Turbine Engine Reliability Study. St. Louis, MO: US Army Aviation Systems Command, 1985.
- T53-L-13B Turbine Engine Supportability Study. St. Louis, MO: US Army Aviation Systems Command, 1984.
- Tackabury, Capt Paul D. and Webb, Allan T. F-4E LES Engine Flameout/Compressor Stall Evaluation. AFFTC-TR-78-19, Ogden-ALC/MMIRAM, n.p., 1978.
- Technical Accomplishments-Power Plant Laboratory-Fiscal Years 1946-1951. WCNE-UN-1. Wright-Patterson AFB, OH: Wright Aeronautical Development Center, 1951.
- Teren, Fred. Minimum-Time Acceleration of Aircraft Turbofan Engines. NASA TM X-73524. Washington, DC: National Aeronautics and Space Administration, 1977.
- Thrust Management. Wright-Patterson AFB, OH: Pram Program Office, ASD/RA, 1981.
- Tifford, A. N. Water Model Tests as Applied to the Lockheed L-1000 Jet Power Plant. 4410. Burbank, CA: Lockheed, 1943.
- Tsuchiya, T., and Murthy, S. N. B. Effect of Water on Axial-Flow Compressors, Part's I, II, III. AFWAL-TR-80-2090, Report prepared for Air Force Aero-Propulsion Laboratory. Lafayette, IN: Purdue University, 1981.
- Turbojet Characteristic. RM-775. Santa Monica, CA: Rand Corporation, 1952.
- Turbojets, Dual Cycle Engines & Turbofans Specification Chart .n.p., 1956.
- Turboprop and Turbojet Engines Specification Charts. n.p., 1954.
- Twoney, W. J. and Ham, E. H. Review of Engine/Airframe/Drive Train Dynamic Interface Development Problems. Report prepared for Sikorsky Aircraft Division, United Aircraft Corporation. n.d., 1978.

- United States, Congress, House, Committee on Interstate and Foreign Commerce, Special Subcommittee on Investigations. Oversight of FAA--Reliability of "Drilled" Turbine Fan Blades on CF-6 Engine Used to Power DC-10 and A-300B Aircraft: Hearings before the Special Subcommittee on Investigations of the Committee on Interstate and Foreign Commerce, House of Representatives. 93rd Congress, July 2 and 10, 1974. Washington, DC: U.S. Government Printing Office, 1974.
- United States, Department of Commerce, Office of Technical Services. Composition and Properties of Soviet Gas Turbine Steels. Washington, DC: U.S. Department of Commerce, 1959.
- United States, General Accounting Office. Examination of the Pricing of J-60 Turbojet Engines Under Department of the Air Force Contracts with Continental Aviation and Engineering Corporation, Toledo, Ohio. Washington, DC: General Accounting Office, 1960.
- United States, General Accounting Office. Government's Loss of Capability to Competitively Procure Replacement Spare Parts for Military Gas Turbine Engines Developed Under Contracts with United Aircraft Corporation, East Hartford, Connecticut. Washington, DC: General Accounting Office, 1963.
- United States, General Accounting Office. Need to Prevent Department of Defense from Paying Some Costs for Aircraft Engines That Contractors Should Pay. Washington DC: U.S. Government Printing Office, 1977.
- United States, General Accounting Office. Overstated Costs Included in Price of Turbojet Engine Parts Purchased from Solar Aircraft Company, San Diego, California, By General Electric, West Lynn, Massachusetts for the Department of the Air Force. Report to the Congress of the United States, by the Comptroller General of the United States Washington, DC: Department of Defense, 1964.
- United States, General Accounting Office. Problems in Managing the Development of Aircraft Engines. Report to the Congress, by the Controller General of the United States. Washington, DC: Department of Defense, 1974.
- United States. Combined Intelligence Objectives Subcommittee. Gas Turbine Development: BMW, Junkers, and Daimler Benz. Washington, DC: Combined Intelligence Objectives Subcommittee, 1945.
- United States/United Kingdom Direct Lift Jet Engine YJ99-RA-3, Issue No. 1. London, England: US/UK Joint Project Office, 1968.
- United States/United Kingdom Joint Direct Lift Engine Development Program Monthly Program Progress Report for May 1967. JARL 30, Greenwich, CT: Allison/Rolls Royce, 1967.
- USAF Maintenance Evaluation Program (MEP) Project Results. Washington, DC: Office of the Secretary of the Navy, Navy Department, 1977.
- Vectored Thrust Cruise Propulsion System Design Report Appendix A. West Palm Beach, FL: Pratt & Whitney, 1967.

Vectored Thrust Cruise Propulsion System: Propulsion System-Dynamic Performance. West Palm Beach, FL: Pratt & Whitney, 1967.

Vectored Thrust Cruise Propulsion System/Design Trade Study Reports. West Palm Beach, FL: Pratt & Whitney, 1967.

Vectored Thrust/Cruise Propulsion System Detailed Specification (Critical Components). West Palm Beach, FL: Pratt & Whitney, 1967.

Voit, Charles H.; Geye, Richard P.; Budinger, Ray E.; Standahar, Raymond M., and Hanson, Morgan P. Investigation of a High-Pressure-Ratio Eight-Stage Axial-Flow Research Compressor with Two Transonic Inlet Stages Vol. I, II, III, IV, VI. NACA RM E53124, E53J06, E54H17, E55828, E55113. Washington, DC: National Advisory Committee on Aeronautics, 1953, 1955.

Walden, W. Debris Tester. Kelly AFB, TX: San Antonio ALC, 1977.

Watkins, Timmie, Jr., and Annis, Charles G., Jr. Engine Component Retirement for Cause: Probabilistic Life Analysis Technique. Report prepared for Air Force Wright Aeronautical Laboratories, Air Force Systems Command, Wright-Patterson AFB, OH. West Palm Beach, FL: United Technologies Corp., Pratt & Whitney Aircraft Group, Government Products Division, 1985.

Watson, Jack O. and Others. Integrated Engine Logistics Management Systems V. 1. Quantico, VA: US Naval Weapons Systems Analysis Office, Marine Corps Air Station, 1971.

Welliver, A. D. and Acurio, J. Element Design and Development of Small Centrifugal Compressor. USAAVLABS-TR-67-30. Seattle, WA: Boeing Co., 1967.

Wennerstrom, Arthur J.; Law, Herbert C. and Buzzell, William A. Investigation of a 1500 ft/sec Transonic, High-Through-Flow Single-Stage Axial-Flow Compressor with Low Hub/Tip Ratio. AFAPL-TR-76-92. Wright-Patterson AFB, OH: Air Force Aero-Propulsion Laboratory, 1976.

White Paper on Air-Breathing Propulsion. Wright-Patterson AFB, OH: Air Force Systems Command, 1962.

White Paper Turbine Engine Division Manpower. n.p., 1968.

White, T. C. Stress Qualification Test of the F109=GA-100 Engine (Engine S/N 907/7). Wright-Patterson AFB, OH: Aeronautical Systems Division, Air Force Systems Command, 1985.

Whonic, 2nd Lt Edward. Extension of Thrust Computing System Technology to the F100 Engine Thrust Computing System For Afterburning Turbofan Engines. Wright-Patterson AFB, OH: Pram Program Office, ASD/RA, 1979.

Wiggins, J. O. and Waltz, G. L. Some Experiences in the Scaling of the NASA 8-Stage Transonic Axial Flow Compressor (Paper). Paper prepared for Society of Automotive Engineers. Peoria, IL: Caterpillar Tractor Co., 1972.



- Williamson, Virginia L. F100 Engine Build Policy Findings. Wright-Patterson AFB, OH: HQ AFLC, DCS/Plans and Programs, Deputy for Management Sciences, 1982.
- Williamson, Virginia L. Training and Combat Engine Removal Statistics (TRACERS). Wright-Patterson AFB, OH: HW AFLC, Office of DCS/Logistics Operations, 1982.
- Wisler, D. C.; Koch, L. H and Smith J. R. Preliminary Design Study of Advanced Multistage Axial Flow Core Compressors. NASA CR-135133, Report prepared for National Aeronautics and Space Administration. Evendale, OH: General Electric, 1977.
- Wolfe, 1st Lt F. C. USAF Combat Experience with Turbo-Jet Power Plants. WCNE-525-482. Wright-Patterson AFB, OH: Powerplant Laboratory, 1952.
- Workload Forecasting and Alternative Overhaul Schedules for Navy Aircraft and Aircraft Engines. Report prepared for Office of the Assistant Secretary of Defense, (Installations and Logistics). Washington, DC: Logistics Management Institute, 1969.
- X211 Turbojet Engine Development During Contract Year 1959. R59FPD494. Evendale, OH: General Electric, 1959.
- Yanke, Capt Michael A. A Methodology for Estimating Jet Engine Costs Early in Weapon System Acquisition. Kirtland AFB, NM: Contract Management Division-XRR, 1976.
- YAV-8B Aircraft/Engine Description. Report prepared for Naval Air Systems Command. St. Louis, MO: McDonnell Douglas Corporation, 1976.
- Yawitz, Aubrey A. Army Contract Overhaul Costs for Aircraft Engines, Gas Turbine & Turbo-Prop. St. Louis, MO: U.S. Army Troop Support and Aviation Materiel Readiness Command, 1981.
- Yawitz, Aubrey A. Overhaul Costs for U.S. Army Engines, Aircraft Gas Turbine and Turbo-Prop. St. Louis, MO: U.S. Army Troop Support and Aviation Materiel Readiness Command, 1978.
- YF101-GE-100 PFRT-Endurance Official Review. Evendale, OH: General Electric, 1974.
- Yount, Reed E.; Zurbrick, John R.; Sullivan W. H.; Witte, Dennis; Mohns, W., and Everett S. S. Propulsion Technology Modernization: Phase 1 Studies Final Report, V. 1 - Methodology. Report prepared for Aeronautical Systems Division, Air Force Systems Command, Wright-Patterson AFB, OH. Cincinnati, OH: General Electric Company, Aircraft Engine Group, 1985.
- Yount, Reed E.; Zurbrick, John R.; Sullivan W. H.; Witte, Dennis; Mohns, W.; and Everett S. S. Propulsion Technology Modernization: Phase Studies Final Report, V. 2 - Results. Report prepared for Aeronautical Systems Division, Air Force Systems Command, Wright-Patterson AFB, OH. Cincinnati, OH: General Electric Company, Aircraft Engine Group, 1985.

3.4 Theses. This section incorporates theses written on particular aspects of aircraft gas turbine engine history by graduates of service institutions such as the Naval Postgraduate School, the School Systems and Logistics of the Air Force Institute of Technology, the Air Command and Staff College, the Defense Systems Management College, and the Air Force Leadership and Management

Development Center. These theses deal with important historical themes associated with government procurement, logistical management, and life cycle cost management of aircraft gas turbine engines.

Bailey, Lt David L., and Tower, Lt Philip W. Production Test Facilities for Turbojet and Turbofan Engines - 1975 to 1995. Monterey, CA: US Naval Postgraduate School, 1972.

Baker, Capt Michael D. and Johnston, 1st Lt Bruce B. An Analysis of Information Sources for the Estimation of Life Cycle Operating and Maintenance Costs of Turbine Engines. Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1977.

Barrett, Capt Charles W. and Koenig, Capt Michael J. The Use of the Maurer Factor for Estimating the Cost of a Turbine Engine in the Early Stages of Development. Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1979.

Boyer, Capt Charles I. A Discussion and Comparison of Jet Engine Overhaul Costs. Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1972.

Brady, Capt James F., and Scritchfield, Capt Michael J. An Examination of the Current United States Air Force Aircraft Engine Status Reporting System. Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1972.

Carlson, Maj Robert J., and Smith, Richard J. The Engine Actuarial System. Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1976.

Creek, Capt Howard E., and Harlambakis, C. N., Jr. Validation of the Detroit Diesel Allison Logistic Support Cost Model (Program OS590). Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1979.

Davidson, Capt George H. and Griffiths, Capt Raymond E. An Identification and Characterization of Cost Models/Techniques Used by the Air Force Logistics Command to Estimate Jet Engine Operation and Support Costs. Wright-Patterson AFB, OH: The School Systems and Logistics, Air Force Institute of Technology, 1977.

Dow, Capt Charles L. and Schnee, Capt Walter L. A Study of Flying Hours and Sorties as Predictors of a B-52H Engine Failures. Wright Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1972.

Drake, Capt Herrick M. An Analysis of Close Air Support Aircraft Power Plants. Maxwell Air Force Base, AL: Air Command and Staff College, Air University, 1969.

Duvall, Capt Thomas J., and Goetz, Capt Thomas J. A Study of Opportunistic Replacement Tactics for Modular Jet Engine Management. Wright-Patterson Air Force Base, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1977.

Forbes, Capt James A. and Wyatt, Capt Phillip P. Optimal Replacement Policy for the F-15 Aircraft Engine Modules. Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1975.

- Geron, Maj John D. Contracting for the Component Improvement Program (CIP) for Military Aircraft Engines. Fort Belvoir, VA: Defense Systems Management School, 1975.
- Gibbons, CDR Thomas. The Flow of Procurement Funds in the Naval Air Systems Command. Fort Belvoir, VA: Defense Systems Management School, 1975.
- Greene, Capt James K., and Stark, Capt Arthur E. An Investigation of the Relationship of Section Production Costs to Total Production Costs of Gas Turbine Engines. Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1977.
- Grusha, John. An analysis of Configuration Management of Engines Delivered to Foreign Governments Under FMS. Fort Belvoir, VA: Defense Systems Management College, 1976.
- Harruff, Thomas R., and Fielding, Alan A. A Proposed Simulation to Forecast Jet Engine Maintenance Removals. Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1971.
- Harruff, Thomas Russell. Review of Air Force and Navy Spare Aircraft Engine Requirements Methodology. Fort Belvoir, VA: Defense Systems Management College, 1976.
- Heinz, Lt Cdr Willaim J. The ECP in Theory and Practice. Fort Belvoir, VA: Defense Systems Management School, 1975.
- Homich, Capt George H. A Critical Review of Depot Maintenance Overhaul Costs for Aircraft Engines. Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1971.
- Hubbard, Capt Elbert B., III and Swecker, Capt Gregory A. An Analysis of Air Force Management of Turbine Engine Monitoring Systems (TEMS). Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1980.
- Keihl, Capt Ted L. An Analysis of Factors Influencing Spare Engine Management. Wright-Patterson AFB, OH: School of Engineering, Air Force Institute of Technology, 1970.
- Masson, Maj John D. Improving Jet Engine Reliability and Maintainability: A Conceptual Approach. Fort Belvoir, VA: Defense Systems Management College, 1976.
- Miller, Capt Richard B., and Simms, Capt Robert A. Applying the C-5A Madar System to Extending TF39 Engine Life. Wright-Patterson AFB, OH: The School of Systems and Logistics, Air Force Institute of Technology, 1969.
- Poncar, Maj Jerry V., and Johnston, Capt James R., II. History and Analysis of the C-5A Program: An Application of the Total Package Procurement Concept. Wright-Patterson AFB, OH: School of Engineering, Air Force Institute of Technology, 1970.
- Schuman, Maj John W. Handbook for Turbine Engine Production Cost Analysis. Maxwell AFB, AL: Air Command and Staff College, 1981.
- Shutak, Maj Michael D. Warranties, Aircraft Engines, and Cost Impacts. Maxwell AFB, AL: Leadership and Management Development Center, 1979.

Simpson, E. C. A Comparison of Several Types of Aircraft Turbo-Propellor Engines (Master's Thesis). Columbus, OH: Ohio State University, 1948.

Stooke, Maj William N., Jr. Retrofit of SAC ED-135C and RC-135 Aircraft with CFM-56 Engines. Maxwell AFB, AL: Air Command and Staff College, 1985.

Svitenko, Maj Lewis C. Airframe/Inlet/Powerplant: The Interface Problem. Maxwell AFB, AL: Air Command and Staff College, Air University, 1974.

Welch, Maj Michael J. An Evaluation of the Reliability Centered Maintenance (RCM) Concept as Applied to the J85, TF30, TF34, and F100 Engines. Maxwell AFB, AL: Air Command and Staff College, 1983.

Welsh, William H. Control of Engine Overhaul Flow Time. Maxwell AFB, AL: Leadership and Management Development Center, 1984.

3.5 Articles. The citations in this section of the database are drawn from the bibliographies listed in section 3.1. Periodicals were chosen for their historical analysis, analysis of new engines entering the marketplace, for their particular analysis of how the industry approached a particular technology problem, for overall analysis of the industry, or for their analysis of future trends in the technology.

1928-1950

Boyd, W. "Transport Best Bet: Axial-flow Jets." Aviation Week 52 (May 15, 1950):23.

Cooke, R. P; and Taylor J. W. "Coming Battle: Props Vs. Jets." Science Digest 25 (March 1949):27.

Cox, H. Robert. "British Aircraft Gas Turbines." Journal of the Aeronautical Sciences 13 (January 1946):53.

Destival, P. "French Turbo-Propeller and Turbo-Reaction Engines." Journal of the Royal Aeronautical Society 53 (June 1949):111.

Fedden, A. H. Roy. "Aircraft Power Plant: Past and Future." Journal of the Royal Aeronautical Society 48 (June 1944):335.

Goddard, R. H. "A New Turbine Rocket Plane for the Upper Atmosphere." Scientific American 146 (July 1932):148.

Gohlke. "Thermal-Air Jet Propulsion." Flugsport (Vol. 31 1939):24.

Gohlke. "Thermal-Air Jet Propulsion." Aircraft Engineering (London) 14 (August 1942):32.

Holt, P. H. "Fuels of the Future: for Gas Turbines and Jet Propulsion." Scientific American 177 (August 1947):72.

Holz, R. "Supersonic Compressor, New Ramjets Revealed at NACA Show." Aviation Week 47 (October 20, 1947):11.

- Hotz, R. "Allison Turboprop Challenges British Lead." Aviation Week 51 (December 5, 1949):11.
- Howard, Alan; and Walker, C. J. "An Aircraft Gas Turbine for Propeller Drive." Mechanical Engineering 69 (Spring 1947):827.
- Lombard, A. A. "Turbine Integration Challenge to Industry; Summary of Address." Aviation Week 68 (January 27, 1958):79.
- Maguire, D. R. "Enemy Jet History." Journal of the Royal Aeronautical Society 52 (March 1948):75.
- McClure, T. O. Jr. "Slant on Turboprops for Large Planes." Aviation Week 53 (December 18, 1950):43.
- McEvoy, J. P. "Daring Young Genius of Jet Propulsion." Flying 44 (January 1949):29.
- McLarren, R. "NACA Engine Research Plots New Boosts for Engine Power." Aviation Week 48 (March 29, 1948):9.
- McLarren, R. "Pressure Recovery Ups Jet Output." Aviation Week 49 (October 4, 1948):18.
- McLarren, R. "Ducted Fan Engine Under Study: Combines Best Turbojet and Turboprop Features." Aviation Week 51 (July 11, 1949):23.
- McLarren, R. "New Propulsion Factors Analyzed." Aviation Week 51 (November 7, 1949):18.
- McLarren, R. "Partial Admission Aids Efficiency." Aviation Week 50 (June 6, 1949):27.
- McLarren, R. "Results of Afterburner Program: Turboramjet." Aviation Week 50 (May 2, 1949):22.
- McLarren, R. "Turbojet Simplicity is Design Complexity." Aviation Week 50 (March 7, 1949):29.
- McSureley, A. "P&W Reveals 6250-1b-thrust J48." Aviation Week 52 (March 6, 1950):15.
- McSureley, A. "P&W Reveals Most Powerful Turboprop." Aviation Week 53 (September 11, 1950):12.
- McSureley, A. "Sapphire Strengthens Wright's Jet Bid." Aviation Week 53 (October 6, 1950):12.
- McSureley, A. "Turboprop Future Seen Bright." Aviation Week 53 (September 18, 1950):15.
- Meyer, E. D. "Recent Developments in Gas Turbines." Mechanical Engineering 69 (Summer 1947):273.
- Moss, Sanford A. "Airplane Gas Turbines with Propeller or Jet Propulsion." General Electric Bulletin No. 816 (November 1940):23.
- No Author Listed. "Jendrassik Combustion Turbine." Engineering (no volume 1939):186.
- No Author Listed. "Afterburner Adds More Thrust to Jet Engines." Science News Letter 52 (August 2, 1947):70.

No Author Listed. "Unique Laboratory Speeds Jet Engine Development at Westinghouse." Aviation Week 47 (December 1, 1947):30.

No Author Listed. "Afterburner Adds Speed." Science News Letter 53 (May 22, 1948):323.

No Author Listed. "For Hypersonics; Research at Princeton University and California Institute of Technology." Time 52 (December 20, 1948):57.

No Author Listed. "Jet Discharge Measured." Science News Letter 54 (December 4, 1948):355.

No Author Listed. "French Jet Program Gathers Momentum." Aviation Week 48 (April 5, 1948):22.

No Author Listed. "Jet Blades Tested in Outdoor Pit by General Electric." Aviation Week 48 (May 3, 1948):18.

No Author Listed. "Turbojet Operated with Cold Blades." Aviation Week 49 (October 11, 1948):28.

No Author Listed. "British Jets Spur U.S." Science News Letter 56 (November 19, 1949):326.

No Author Listed. "Dual Turboprop Engine." Science News Letter 56 (December 10, 1949):373.

No Author Listed. "U.S. Improves British High-Powered Jet Engine; Turbo-Wasp." Science News Letter 55 (January 8, 1949):24.

No Author Listed. "Ceramal: New Turbine Blade Alloy." Aviation Week 50 (May 23, 1949):26.

No Author Listed. "Tough Switch: From Few to Many; Mass Production of Precision Jet Engines." Aviation Week 51 (November 21, 1949):41.

No Author Listed. "Turbo-Wasp Passes Qualification Test." Aviation Week 50 (January 30, 1949):12.

No Author Listed. "U.S. Gas Turbine Engines - Table." Aviation Week 50 (February 29, 1949):23.

No Author Listed. "Afterburning Puts More Push in GE Jets." Business Week (May 11, 1950):96.

No Author Listed. "Ceramals for Gas Turbines." Science News Letter 57 (June 16, 1950):348.

No Author Listed. "Exhaust Put to Work." Business Week (June 3, 1950):40.

No Author Listed. "Extra Power from Engine: T37 Turbodyne." Science News Letter 57 (June 3, 1950):341.

No Author Listed. "Analysis of Ceramics for Jet Engine Use." Aviation Week 51 (March 13, 1950):21.

No Author Listed. "Boeing Readies Turbine for Market." Aviation Week 52 (April 10, 1950):45.

No Author Listed. "British Turbine Progress Outlined." Aviation Week 52 (June 5, 1950):29.

No Author Listed. "Canadian, British, and French Jet Engines; Table." Aviation Week 52 (February 27, 1950):147.

No Author Listed. "Factors in Gas Turbine Blade Production." Aviation Week 52 (January 16, 1950):27.

No Author Listed. "First Cutaway Views of the J42 Turbo-Wasp." Aviation Week 52 (March 27, 1950):30.

No Author Listed. "Machining Studies Aid Aero Production." Aviation Week 53 (December 18, 1950):22.

No Author Listed. "Materials Substitution Plan for Turbojets." Aviation Week 52 (May 8, 1950):27.

No Author Listed. "Scope Scans Jet Flame Pattern." Aviation Week 52 (May 22, 1950):32.

No Author Listed. "Turbodyne Completes Test Run; Northrop Aircraft's T-37." Aviation Week 52 (June 5, 1950):14.

No Author Listed. "Turbojet Controls Analyzed by NACA." Aviation Week 53 (October 16, 1950):22.

No Author Listed. "Wright Aero Pushes Ramjet Study." Aviation Week 52 (February 6, 1950):21.

Ricardo, H. R. "The Development and Progress of the Aero Engine." Journal of the Royal Aeronautical Society 34 (June 1930):1001.

Seippel, Claude. "The Development of the Brown Boveri Axial Compressor." Brown Boveri Review 27 (November 1940):108.

Shtoda, A. "Aircraft Engine Development." Soviet Military Review 5 (May 1947):28.

Smelt, R. "A Critical Review of German Research on High-Speed Airflow." Journal of the Royal Aeronautical Society 50 (June 1946):900.

Stone, I. "New High-thrust Turbojet Seen for GE." Aviation Week 53 (December 4, 1950):21.

Whittle, Frank. "Speculation." Royal Air Force Cadet College Magazine (Fall 1928):106.

Whittle, Frank. "The Turbo-Compressor and the Supercharging of Aero Engines." Journal of the Royal Aeronautical Society 35 (January 1931):1047.

Whittle, Frank. "The Early History of the Whittle Jet-Propulsion Gas Turbine." The Aeroplane London (October-November 1945)

1951

McSureley, A. "Allison Gets Heavy T40 Orders." Aviation Week 54 (January 1, 1951):14.

McSureley, A. "Allison J35." Aviation Week 54 (March 19, 1951):14.

McSureley, A. "NACA Shows Cooler Blades for Hot Jets." Aviation Week 55 (October 22, 1951):16.

No Author Listed. "Ceramics: They Help Steel Stand Jet Temperatures." Business Week (October 6, 1951):46.

No Author Listed. "Hot-hose Turbojet Safe From Icing Problems." Science News Letter 60 (August 18, 1951):105.

No Author Listed. "Jet Blades Made of Powder." Business Week (January 6, 1951):42.

No Author Listed. "AF Bases Secrets of MiG Engine." Aviation Week 54 (June 11, 1951):16.

No Author Listed. "Ceramic Liners." Aviation Week 55 (April 21, 1951):34.

No Author Listed. "Duplicator Traces 14 Jet Blades." Aviation Week 55 (November 19, 1951):33.

No Author Listed. "French Turbines Enter U.S. Field." Aviation Week 55 (October 5, 1951):32.

No Author Listed. "GE Reveals More Powerful J47s." Aviation Week 54 (June 18, 1951):17.

No Author Listed. "How Critical Metals Problems Are Licked." Aviation Week 54 (May 28, 1951):36.

No Author Listed. "J35A-23 Work Continues At Allison." Aviation Week 54 (May 18, 1951):17.

No Author Listed. "Leading Foreign Jet Engines; Table." Aviation Week 54 (February 26, 1951):165.

No Author Listed. "Navy Jet Lab Gets Powerful Air Unit." Aviation Week 55 (July 9, 1951):41.

No Author Listed. "Olympus: Wright's Ace-in-the-hole?" Aviation Week 54 (May 7, 1951):33.

No Author Listed. "Powder Metal Boosts Jet Blade Output." Aviation Week 55 (September 17, 1951):30.

No Author Listed. "Refined Design Puts More Power in J47." Aviation Week 55 (July 21, 1951):21.

No Author Listed. "Tool Flexibility raises Jet Engine Output." Aviation Week 55 (August 13, 1951):21.

No Author Listed. "Use New Technique in Engine Assembly of J65." Aviation Week 55 (October 29, 1951):36.

No Author Listed. "Westinghouse Y-Ducted J-40." Aviation Week 54 (April 16, 1951):14.

Schwalb, H. M. "Super-metals for Jet Planes." Science Digest 30 (December 1951):61.

Stone, I. "J35 Points Up New Thrust Achievements." Aviation Week 54 (April 2, 1951):25.

Stone, I. "Wright Speeds Sapphire to Production." Aviation Week 54 (April 16, 1951):22.

Vandenberg, H. S. "What Vandenberg Told Senators." Aviation Week 54 (June 11, 1951):17.



1952

- Anderton, D. A. "GE Cuts Bottleneck at New Jet Center." Aviation Week 56 (April 14, 1952):21.
- Anderton, D. A. "Turbines Look Good for Copter Power." Aviation Week 57 (August 18, 1952):35.
- Christian, G. L. "Air Research Extends Gas Turbine Field." Aviation Week 56 (June 21, 1952):48.
- Holz, R. "Split Compressors Usher In New Jet Era." Aviation Week 57 (October 20, 1952):13.
- Klass, P. J. "Jet Instrumentation Turns to Avionics." Aviation Week 56 (March 31, 1952):42.
- No Author Listed. "Titanium-Alloy Engines Lessen Weight Corrosion." Science News Letter 62 (August 2, 1952):72.
- No Author Listed. "50,000-hp. Jet Engines Forecast." Aviation Week 56 (March 17, 1952):37.
- No Author Listed. "Allison Reports New Turboliner Progress." Aviation Week 56 (May 19, 1952):89.
- No Author Listed. "Engineering the Cutlass Afterburner." Aviation Week 56 (January 28, 1952):23.
- No Author Listed. "Engineers Meet Afterburner Challenge." Aviation Week 57 (November 3, 1952):21.
- No Author Listed. "Family Photo of GE Jet Engines." Aviation Week 57 (December 22, 1952):24.
- No Author Listed. "First U.S. Turboprop Assembly Line." Aviation Week 57 (November 10, 1952):21.
- No Author Listed. "Low-cost Jet Blades for Future." Aviation Week 56 (May 26, 1952):42.
- No Author Listed. "Ramjet Favored for Mach 2-4 Range." Aviation Week 57 (December 15, 1952):21.
- No Author Listed. "Turboprops." Aviation Week 57 (November 24, 1952):19.
- Stevens, J. H. "By-pass Engine Promises New Economy." Aviation Week 57 (November 24, 1952):23.
- Stone, I. "C-W Naturalizes Sapphire Jet Engine." Aviation Week 57 (December 22, 1952):21.
- Warren, Glenn B. "Jet Propelled Airplanes." General Electric Review 55 (Summer 1952):34.

1953

- Ainley, D. G. "An Experimental Single Stage Air-Cooled Turbine." Aircraft Engineering 25 (September 1953):269.
- Anderton, D. A. "Hisso Boosts Centrifugal Jet's Thrust." Aviation Week 59 (October 19, 1953):45.
- Baltensweiler, A. "Will the Propeller Turbine Oust the Piston Engine?" Interavia 8, No.2 (September 1953):76.

- Bensen, I. B. "Theory and Practice of Gas Turbine Power Plants for Helicopters." American Helicopter 30 (May 1953):6.
- Bertin, J. "The SNECMA Escopette Pulse-Jet." Interavia 8, No. 6 (September 1953):343.
- Breguet, L. "Turbine-powered Commercial Aircraft." Interavia 8, No.2 (January 1953):68.
- Coughlin, W. J. "AA Calls Ducted Fan Key to Jet Airliners." Aviation Week 59 (November 23, 1953):88.
- Cronstedt, V. "Something New in the Canadian Aviation Industry: Jet Engine procurement." Canadian Aviation 26 (December 1953):52.
- Desoutter, D. M. "Turbojet Evolution." Aeronautics 28 (March 1953):39.
- Ervin, A. L. "Design for Turbo-jet Simplicity." Aviation Age 20 (December 1953):28.
- Fowler, H. S. "Cooling the Blades." Air Pictorial 15 (February 1953):37.
- Haggerty, J. J. "World's Most Powerful Jet Engine; Turbojet J57." Colliers 132 (December 25, 1953):28.
- Harned, M. "Ramjet Applications to Aircraft Propulsion." Aviation Age 19 (January 1953):60.
- Hawthorne, R. "Fairchild Monocoque Turbojet." Aviation Age 20 (December 1953):30.
- Hawthorne, R. "Gas Turbines for Helicopters." Aviation Age 19 (April 1953):96.
- Holland, R. T. "Plan for Broadening Jet Engine Design; Summary of Address." Aviation Week 58 (March 16, 1953):24.
- Hotz, R. "FAA Favors Turboprop Airliners." Aviation Week 58 (May 11, 1953):102.
- Kilrain, W. A. "Mach 2-4: Ramjet Stamping Ground." American Aviation 16 (February 2, 1953):24.
- Koetting, J. L.; and Wosika L. R. "Design Considerations for a Helicopter Gas Turbine Powerplant." American Helicopter 30 (April 1953):6.
- LaPierre, C. W. "Engines." Air Force Times 36 (October 1953):37.
- Marquardt, R. E. "Tomorrow's Powerplant Today." Aviation Age 20 (July 1953):24.
- No Author Listed. "AF J57 Turbojet Engine Rated At 19,000 lbs." Army Navy Air Force Journal 91 (November 14, 1953):334.
- No Author Listed. "America and the Turboprop." Interavia 8, No.2 (August 1953):101.
- No Author Listed. "Baby Turbojet Powers Guided Missiles." Business Week (December 5, 1953):48.

No Author Listed. "British Aero Engines." Aeronautics 29 (September 1953):76.

No Author Listed. "Civil and Military Propeller Turbines; A Review." Interavia 8, No.2 (July 1953):72.

No Author Listed. "Compact Engine from Continental." Aviation Age 19 (February 1953):123.

No Author Listed. "Engine Procurement and Development." Flight 63 (April 17, 1953):479.

No Author Listed. "Gas-turbine Development." Flight 64 (October 1953):501.

No Author Listed. "J57 Powers Fighter in Supersonic Flight." U.S. Air Services 38 (September 1953):8.

No Author Listed. "Jet Engine of the Future." Air Pictorial 15 (January 1953):6.

No Author Listed. "Jet Propulsion: A Small Nation's Dilemma." Interavia 8, No.5 (August 1953):258.

No Author Listed. "Meet Studies Better Ways of Overhaul." Air Force Times 14 (December 12, 1953):31.

No Author Listed. "Miniature Jets for Peace and War." Interavia 8, No.4 (September 1953):204.

No Author Listed. "New Airline Workhorse: Turbine-driven Propeller Engine." Business Week (October 24, 1953):183.

No Author Listed. "New Technique in Turbine Design." American Aviation 17 (August 17, 1953):36.

No Author Listed. "Powerplants--Performance Prime Movers." Aviation Age 19 (June 1953):102.

No Author Listed. "Propellers for Gas Turbines." Interavia 8, No.2 (May 1953):86.

No Author Listed. "Prospects for Small Turbines." Flight 64 (November 13, 1953):651.

No Author Listed. "Rolls-Royce Develops Avon to Thrust Rating of 9500 lb." Canadian Aviation 26 (April 1953):86.

No Author Listed. "Silencing Jet Engine Test Houses; A Correction." Interavia 8, No. 5 (February 1953):270.

No Author Listed. "Swedes May License Jet Engine Abroad." American Aviation 17 (June 8, 1953):37.

No Author Listed. "Thoughts on Gas Turbines." Flight 63 (April 1953):420.

No Author Listed. "Turboprop Aircraft." Interavia 8, No. 2 (August 1953):67.

No Author Listed. "Two-speed Turbo-wasp." Flight 64 (November 27, 1953):696.

No Author Listed. "Variable-nozzle After-burners." Air Pictorial 15 (March 1953):73.

No Author Listed. "Westinghouse Turbojets." Flight 64 (November 13, 1953):641.

No Author Listed. "What is a 'Free' Turbine?" Air Pictorial 15 (July 1953):202.

No Author Listed. "AF Permits First Look at P&WAJ57." Aviation Week 59 (November 16, 1953):17.

No Author Listed. "GE Expert Praises British Jet Engines." Aviation Week 59 (November 16, 1953):56.

No Author Listed. "Making Jet Buckets and Blades Better." Aviation Week 59 (July 13, 1953):29.

No Author Listed. "NACA Opens Lab for Giant Jets: Lewis Propulsion Laboratory, Cleveland." Aviation Week 58 (January 26, 1953):22.

No Author Listed. "New Materials for Jet Problems." Aviation Week 58 (March 2, 1953):158.

No Author Listed. "Thrust of 20,000 lb Predicted By 1960." Aviation Week 58 (March 30, 1953):15.

Parrish, W. W. "Let's Have Both." American Aviation 17 (July 20, 1953):9.

Reeman, J. "An Experimental Single-Stage Air-Cooled Turbine." Aircraft Engineering 25 (August 1953):227.

Rieger, R. F. "Turbo-propaganda." Aviation Week 59 (November 9, 1953):26.

Silverstein, A. "Propulsion." Aviation Age 19 (June 1953):182.

Small, R. E. "Design Features of GE J47 Turbojet." Aviation Age 20 (December 1953):56.

Sneed, S. M. "The Repair and Overhaul of Gas Turbines." Aircraft Engineering 25 (July 1953):200.

Stephenson, J. M. "Pressure Ratios for Aero-engines." Aircraft Engineering 25 (December 1953):371.

Stone, I. "Analysis Bares J47 Jet Design Details." Aviation Week 59 (October 26, 1953):27.

Stone, I. "Fairchild Stresses Simplicity in J44 Jet." Aviation Week 59 (November 30, 1953):30.

Stone, I. "How Automatic Engine Factory Works; Wright Turbo Compound." Aviation Week 59 (December 14, 1953):48.

Vandyk, Anthony. "British Jet Engine Plans Revealed." American Aviation 16 (March 30, 1953):19.

1954

Anderton, D. A. "Installation is Critical for Mach 2 Jets." Aviation Week 61 (July 12, 1954):28.

Anderton, D. A. "NACA Pushes Supersonic Thrust Hunt." Aviation Week 60 (June 28, 1954):30.

Anderton, D. A. "Turbofan Aims at Higher Efficiencies." Aviation Week 61 (August 2, 1954):34.

Duguid, C. D. "Aero Engines in the Twentieth Century." Aeronautics 30 (May 1954):54.

Eames, J. P. "Turbine and Jet-Propelled Aircraft Powerplants." American Helicopter Review 34 (April 1954):18.

Gunston, W. T. "The Quest for Power." Flight 65 (April 9, 1954):429.

Hawthorne, R. "Boeing Model 502 ...Compressor or Powerplant." Aviation Age 21 (April 1954):22.

Hawthorne, R. "Design Features of the ATAR 101." Aviation Age 22 (October 1954):60.

Hawthorne, R. "Sapphire Design Details." Aviation Age 21 (May 1954):22.

Hawthorne, R. "World's Largest Turboprop Engine." Aviation Age 22 (November 1954):36.

Hobbs, L. S. "The Aircraft Engine." United Aircraft Quarterly Bee-Hive 29 (Fall 1954):3.

Hobbs, L. S. "Hobbs on Jet Engine History." Aviation Week 60 (May 17, 1954):34.

Holz, R. "Mach 2 Power, Plane Engine Revolution At Lewis Lab." Aviation Week 60 (June 14, 1954):12.

Holz, R. "U.S. Turbine Program Needs Push." Aviation Week 60 (June 21, 1954):14.

Holz, R. "Westinghouse Puts Millions in Jet Program." Aviation Week 61 (December 20, 1954):16.

Hurley, R. T. "Turbines Not Ready for Airliners." Aviation Week 61 (October 11, 1954):25.

Jennings, B. H.; and Rogers W. L. "Gas Turbine Analysis and Practice." Jet Propulsion 24 (May/June 1954):197.

Lee, F. B. "The CAA and the Turbine - Powered Transportation." Boeing Magazine 24 (September 1954):5.

Lipsett, W. G. "Science Milestone: Sir Frank Whittle, Turbojet Pioneer." Science Digest 36 (November 1954):86.

Loebelson, R. M. "USAF Ready for By-pass Engine Orders." American Aviation 17 (April 12, 1954):17.

No Author Listed. "10,000 lbs. Thrust Class." Interavia 9, No.1 (June 1954):33.

No Author Listed. "Actuarial Tables Forecast Life Expectancy of Engines." Air Force Times 14 (January 30, 1954):11.

No Author Listed. "Aero Engines 1954." Flight 65 (April 9, 1954):445.

No Author Listed. "Automation Pays Off in Engine Assembly." Aviation Age 21 (January 1954):114.

No Author Listed. "British Aircraft and Engines." Interavia 9 (June 1954):601.

No Author Listed. "Controlling Free Turbine Helicopter Engines." Aviation Age 22 (August 1954):90.

No Author Listed. "Engines You'll Still See in 1964." Popular Science 164 (June 1954):114.

No Author Listed. "Faster Air Transport Turbine Airlines on Both Sides of the Atlantic." Interavia 9, No.10 (January 1954):666.

No Author Listed. "From Piston to Ramjet." Roundel 6 (March 1954):37.

No Author Listed. "Gas-turbine Engine." Military Review 34 (June 1954):64.

No Author Listed. "Jet Age Gets Postponed Again." Business Week (October 30, 1954):76.

No Author Listed. "British Aero Engines." Aeronautics 31 (September 1954):104.

No Author Listed. "Nickel Base Alloy Adds Thrust of Jet Engines; Waspaloy." Science News Letter 66 (July 24, 1954):62.

No Author Listed. "Powerplants: Backbone of Transport Development." Aviation Age 21 (March 1954):120.

No Author Listed. "Ram and Turbine Engines." Aviation Age 22 (July 1954):70.

No Author Listed. "Red-Hot Ceramic Paint Protects Jet Engines." Science News Letter 65 (February 27, 1954):133.

No Author Listed. "Telemeter for High Turbine Blade Temperatures." Aviation Age 22 (December 1954):58.

No Author Listed. "Turboprop Versus Jet." Science News Letter 65 (January 30, 1954):71.

No Author Listed. "Westinghouse May Sell Conway By-pass in U.S." American Aviation 17 (March 15, 1954):16.

No Author Listed. "Air Force Grounds J57 Temporarily." Aviation Week 60 (March 8, 1954):15.

No Author Listed. "Ford Beats Schedule on J57 Delivery." Aviation Week 60 (May 3, 1954):44.

No Author Listed. "GE Aims to Cut Jet Development Knots." Aviation Week 61 (November 29, 1954):22.

No Author Listed. "J40 Mounts Integral A. C. Drive." Aviation Week 60 (May 24, 1954):60.

No Author Listed. "J57 with Afterburner Gives 14,500 lb. Thrust." Aviation Week 60 (May 17, 1954):15.

No Author Listed. "Jet Evaluation." Aviation Week 60 (February 22, 1954):14.

No Author Listed. "Powdered Metals Take 1,900F." Aviation Week 61 (November 29, 1954):41.

No Author Listed. "Ryan Develops Ceramic-liner Techniques." Aviation Week 60 (April 26, 1954):38.

No Author Listed. "Specifications." Aviation Week 60 (March 15, 1954):216.

No Author Listed. "Tinker Makes Jet Engines Good as New." Aviation Week 61 (August 16, 1954):278.

No Author Listed. "Turboprop Bugs Licked: Allison." Aviation Week 60 (June 28, 1954):16.

No Author Listed. "U.S. Firms See Reverse Jet Unit." Aviation Week 60 (January 25, 1954):58.

No Author Listed. "Vacuum Melting Improves Turbine Alloys." Aviation Week 61 (September 6, 1954):42.

Olden H. "Mass Methods for Engine Overhaul." Aviation Age 21 (June 1954):24.

Perreault, W. D. "Four Firms in USAF Reverse Thrust Race." American Aviation 17 (April 12, 1954):13.

Stone, I. "Analysis Reveals Wright J65 Details." Aviation Week 60 (June 14, 1954):28.

Stone, I. "Avro Canada Pushes Jet Developments." Aviation Week 61 (August 30, 1954):26.

Stone, I. "First Details Disclose P&WA's T34 Turboprop." Aviation Week (September 20, 1954):19.

Stone, I. "Glass-plastic Blade Passes 100-hr Test." Aviation Week 60 (April 5, 1954):43.

Stone, I. "Jet Labs to Aid Thompson Research." Aviation Week 60 (March 29, 1954):36.

Stone, I. "Wright Pushes Supercharged Turboprop." Aviation Week 61 (December 20, 1954):28.

Summerfield, M. "High Temperatures: Propulsion." Scientific American 191 (September 1954):120.

Whyte, L. L. "Whittle and the Jet Adventure." Harper 208 (June 1954):47.

1955

Anderton, D. A. "Advanced Engines, Obsolescent Planes." Aviation Week 63 (October 3, 1955):26.

Anderton, D. A. "How U.S., British Jet Practices Differ; Turbojets." Aviation Week 62 (May 9, 1955):36.

Christian, G. L. "New Jets Get Ratio Thrust Indicators; Turbojets." Aviation Week 62 (April 25, 1955):69.

Conley, G. "Turbine Plane Economy Hinges on Outcome of Fuel Controversy." Aviation Week 62 (April 18, 1955):21.

- Darge, T. F. "Bypass Engine." Flying 57 (July 1955):24.
- Holz, R. "British Misinformation Service." Aviation Week 63 (September 26, 1955):114.
- Holz, R. "Our Engine Development Problem." Aviation Week 62 (February 21, 1955):114.
- Housman, E. "Civil Jet Age is Upon Us." Science News Letter 68 (September 3, 1955):154.
- Kosman, H.; and Hawthorne, R. "Small Gas Turbine Progress: Small Turbojets." Aviation Age 23 Pt. 1 (February 1955):26.
- Kosman, H.; and Hawthorne, R. "Small Gas Turbine Progress: Small Turboprops." Aviation Age 23 Pt. 2 (February 1955):26.
- Kosman, H.; and Hawthorne, R. "Small Gas Turbine Progress: Small Gas Turbines for Helicopters." Aviation Age 23 Pt. 3 (February 1955):26.
- Kosman, H.; and Hawthorne, R. "Small Gas Turbine Progress: Small Ducted Fan Engines." Aviation Age 23 Pt. 4 (February 1955):26.
- LaPierre, C. W. "Design Trends in Jet Engines." American Aviation 17 (August 17, 1955):26.
- Murphy, J. S. "U.S. British Developments Share SAE Spotlight." American Aviation 18 (May 9, 1955):32.
- No Author Listed. "Aircraft and Engine Specifications." Aeroplane 89 (September 2, 1955):337.
- No Author Listed. "Aircraft Engines." Military Review 35 (September 1955):67.
- No Author Listed. "Annular Combustion for Turbine Engines." Aeroplane 88 (January 14, 1955):48.
- No Author Listed. "Answer in Engines." Newsweek 45 (January 3, 1955):50.
- No Author Listed. "Britain's Turbine Research." Air Pictorial 17 (December 1955):366.
- No Author Listed. "Bypass in the Middle." Time 66 (July 4, 1955):64.
- No Author Listed. "Design Trends Told at SAE Meetings." Aviation Age 24 (August 1955):140.
- No Author Listed. "Ducted Fan Jet Engine Proposed for Airlines." Science News Letter 67 (April 30, 1955):284.
- No Author Listed. "Engine Contract Awarded by Navy." Army Navy Air Force Register 76 (March 5, 1955):5.
- No Author Listed. "Engines for Tomorrow's Airliners." Interavia 10, No.4 (July 1955):252.
- No Author Listed. "First U.S. Turboprop; the Electra." Time 65 (June 20, 1955):81.
- No Author Listed. "Mixed Power-Plant Interceptors." Aeroplane 89 (December 2, 1955):852.



No Author Listed. "New Trends in Power Plants." Aeroplane 88 (April 22, 1955):103.

No Author Listed. "Small Turbojets and Turboprops." Aviation Age 23 (June 1955):64.

No Author Listed. "Supersonic Boom, A New Weapon?" Science Digest 38 (October 1955):72.

No Author Listed. "Three Jet Types Seen for Airlines of Future." Science News Letter 68 (July 16, 1955):37.

No Author Listed. "Turbine Engine Policy." Army Navy Air Force Register 76 (February 19, 1955):23.

No Author Listed. "Two New Civil Propeller Turbines: Allison 501-D10 and Bristol BE-25." Interavia 10 (July 1955):532.

No Author Listed. "Test Engine (Gas Turbine T-522)." Military Review 35 (December 1955):8.

No Author Listed. "Critical Metal Limits Set For Turbojets." Aviation Week 63 (August 8, 1955):42.

No Author Listed. "Industry is Warned on Critical Materials." Aviation Week 63 (December 5, 1955):16.

No Author Listed. "Jet Engine Policy Stresses Quality, Not Standardization." Aviation Week 63 (July 4, 1955):18.

No Author Listed. "Mating Air Inlets with Turbojets Troubles Supersonic Plane Design." Aviation Week 63 (July 4, 1955):15.

No Author Listed. "New Board Set Up for Engine Planning; Air Force Aircraft Engines Logistics Planning Board." Aviation Week 63 (July 11, 1955):18.

No Author Listed. "Thermal Stability of Jet Fuel Studied." Aviation Week 63 (December 5, 1955):7.

No Author Listed. "Turbine Builders Hit Standardization Plan." Aviation Week 62 (January 24, 1955):18.

No Author Listed. "Wilson Appoints Jet Policy Group; Turbine Engine Development." Aviation Week 62 (February 21, 1955):15.

Pearson, J. D. "Rolls-Royce's Pearson Reviews Jet Engine Development Problems." Aviation Week 62 (October 17, 1955):46.

Sharp, C. H. "Let's Be Realistic About Space Engines." Aviation Age 24 (July 1955):113.

Smith, G. G. "Gas Turbines and Jet Propulsion." Review Air Power 3 (October 1955):77.

Stambler, Irwin. "Stronger Materials for Hotter Engines." Aviation Age 24 (August 1955):17.

Stevens, J. H. "Tomorrow's Aero-Engines; A Review of Some Present Developments and Trends." Air Pictorial 17 (June 1955):163.

Stone, I. "Solar-Bristol Join in Afterburner Pact." Aviation Week 63 (August 29, 1955):36.

Weigel, H. S. "From Pistons to Turboprops." Skyways 14 (August 1955):20.

1956

Banks, Air Commodore F. R. "There Is No Finality In Aviation." Interavia 11 (April 1956):285.

Boett, A. "A Runway Silencer for Jet Engines." Interavia 11 (April 1956):291.

Christian, G. L. "Kerosene, JP-4 Complete in Laboratory." Aviation Week 64 (May 28, 1956):84.

Constant, R. "Ten Years of ATAR Development." Interavia 11 (April 1956):287.

Cushman, R. "Engine Art Ready for Tomorrow's Needs." Aviation Week 64 (March 12, 1956):169.

Cushman, R. "New T53 Stimulates STOL/VTOL Firms." Aviation Week (August 27, 1956):62.

Demirjian, S. C. "Getting Rid of Band Ferrite...Makes for Easier Blade Forging." Aviation Age 26 (November 1956):24.

Desoutter, D. M. "British Cards in the Commercial Transport Poker Game." Aviation Age 25 (January 1956):122.

Fowler, H. S. "Fighter Engines 1960." Air Pictorial 18 (December 1956):410.

Gillman, R. E. "Flying the Eland-Convair." Aeroplane 91 (September 28, 1956):485.

Gooding, L. E. "Minus 85 degree Fahrenheit in Florida (Testing Jet Engines in the Eglin AFB Climatic Hanger and Test Cells)." Combat Crew 7 (November 1956):10.

Hawthorne, R. "Producing the Atar Jet Engine." Aviation Age 25 Pt. 1 (May 1956):112.

Hawthorne, R. "Producing the Atar Combustion Chamber." Aviation Age 26 Pt. 2 (July 1956):78.

Hawthorne, R. "Making Sheet Metal Parts for the Atar." Aviation Age 26 Pt. 3 (August 1956):98.

Hawthorne, R. "Engine Starts In Minutes At - 65 Degrees F." Aviation Age 26 (December 1956):48.

Holahan, James. "Jet Control Goes Electronic." Aviation Age 26 (November 1956):98.

Huddie, D. P. "Development of Rolls-Royce Propeller Turbine Engines." Shell Aviation News No.220 (October 1956):16.

Johnson, R. B. Jr. "How Metallurgy Problems Were Solved in the J47." American Aviation 26 Pt. 1 (September 1956):86.

Johnson, R. B. Jr. "How Metallurgy Problems Were Solved in the J47." American Aviation 26 Pt. 2 (October 1956):40.

Koby, Victor. "Engines, Electronics Save 1956 Farnborough Show." Canadian Aviation 29 (October 1956):80.

Koby, Victor. "Orenda To Fly Its Power Giant." Canadian Aviation 29 (April 1956):33.

Lambert, C. M. "Handling the Napier Eland Airliner." Flight 69 (June 1, 1956):667.

Levy, A. V. "New Magnesium Alloy Stands Up In 'Hot' Ramjet." Aviation Age 25 (April 1956):28.

Lindsey, W. H. "Turboprops for the Navy." Aeroplane 90 (April 13, 1956):257.

Lovesey, A. C. "Fitting Jets to Fighters." Aeronautics 34 (July 1956):31.

Lovesey, A. C. "Supersonic Age Poses Jet Installation Design Problems." Aviation Age 26 (September 1956):28.

Mangham, E.; and Peace, A. "Jet Engine Manual." Marine Corps Gas 40 (January 1956):62.

Masefield, P. G. "Some Post-prandial Prognostications." Esso Air World 8 (January-February 1956):92.

Moeller, D. O. "Freon Cooling For High Performance Flight." Aviation Age 25 (June 1956):D10.

Murphy, J. S. "Doeing Jet Silencers Near Flight Test." American Aviation 19 (February 13, 1956):27.

Murphy, J. S. "Jets Delay Piston Engine Ignition Progress." American Aviation 20 (November 5, 1956):30.

Murphy, J. S. "Turbines Must Become Safer, More Reliable." American Aviation 19 (May 21, 1956):38.

No Author Listed. "A Survey of the Powerplant Picture." Aeroplane 91 (November 16, 1956):723.

No Author Listed. "Aero Engines 1956." Flight 69 (May 11, 1956):567.

No Author Listed. "Aero Engines Reviewed." Aeroplane 91 (September 7, 1956):364.

No Author Listed. "Aircraft Engines (Great Britain)." Military Review 36 (December 1956):70.

No Author Listed. "Allison's Flexible Commercial Turboprop." Aviation Age 25 (January 1956):32.

No Author Listed. "Announced Turbine Transport Orders (as of April 10, 1956)." American Aviation 19 (April 23, 1956):190.

No Author Listed. "Armstrong Siddeley Sapphire." Flight 69 (January 6, 1956):17.

No Author Listed. "Best New Products and Processes of 1956." American Aviation 20 (October 22, 1956):122.

No Author Listed. "Big Engines or Small?" Aeroplane 91 (August 10, 1956):189.

No Author Listed. "Boeing 707 Revelations." Flight 69 (January 27, 1956):115.

No Author Listed. "British Aero Engines, 1956." Flight 70 (August 31, 1956):383.

No Author Listed. "British Ramjets." Flight 70 (August 10, 1956):212.

No Author Listed. "Centaurus 373; Direct-injection Engines for the Beverley." Flight 70 (November 16, 1956):790.

No Author Listed. "Combustion Processes, ed. by . Lewis et al. (v 2. of High Speed Aerodynamics and Jet Propulsion)." Review Aeronautics 35 (November 1956):75.

No Author Listed. "Commonwealth Aviation; The Engines." Flight 70 (August 24, 1956):292.

No Author Listed. "Crew At Turner Records New Engine Change Mark." Air Force Times 17 (September 8, 1956):30.

No Author Listed. "Current British Aero-engines...." Aeroplane 91 (August 31, 1956):311.

No Author Listed. "Curtiss-Wright Shows Ramjet, Rocket Engines." American Aviation 19 (March 26, 1956):10.

No Author Listed. "DeHavilland Gyron Junior." Aeroplane 91 (September 7, 1956):69.

No Author Listed. "Eland Convair 340." Aeroplane 90 (January 27, 1956):117.

No Author Listed. "Eland Turboprop Promises Longer Life for Convair 340." Aviation Age 25 (May 1956):58.

No Author Listed. "Eland: Fixed or Rotary Wing Powerplant." Aviation Age 25 (May 1956):26.

No Author Listed. "Elands for the Airlines." Aeroplane 91 (November 2, 1956):668.

No Author Listed. "Engine Accessories and System." Aeroplane 91 (September 14, 1956):424.

No Author Listed. "Engines at Farnborough." Flight 70 (September 22, 1956):488.

No Author Listed. "Gas Turbine for Aircraft." Aviation Age 25 (June 1956):B14.

No Author Listed. "Gen Irvine Predicts Mach 3 Turbojets." American Aviation 20 (October 8, 1956):33.

No Author Listed. "General Electric Puts \$20 Million On Line In Bid for Turbine and Missile Business." American Aviation 19 (February 27, 1956):28.

No Author Listed. "General Electric Reveals New Commercial Jet Engine." Armed Forces Management 2 (July 1956):23.

No Author Listed. "General Electric's 'Laboratories In the Sky'." American Aviation 19 (January 2, 1956):42.

No Author Listed. "Hickam Uses New Method of Calibrating." Air Force Times 16 (May 26, 1956):17.

No Author Listed. "Hot Turbines." Flight 69 (March 16, 1956):292.

No Author Listed. "Spin Pit Checks High Speed Rotors." Aviation Age 26 (November 1956):64.

No Author Listed. "How Ford Broke Testing Bottleneck." American Aviation 20 (December 3, 1956):36.

No Author Listed. "J57 Engines at Work." United Aircraft Quarterly Bee-Hive 31 (Fall 1956):2.

No Author Listed. "Jet Engine Control Uses Pneumatic Parameters." Aviation Age 25 (May 1956):62.

No Author Listed. "Jet Engine Materials Freed from Quotas." American Aviation 20 (November 6, 1956):28.

No Author Listed. "Jet's Exhaust Starts Bomber." Air Force Times 16 (February 11, 1956):5.

No Author Listed. "JP-5 Becomes Fuel Mainstay." Naval Aviation News (December 1956):37.

No Author Listed. "Lucas High-altitude Plant." Aeroplane 90 (April 27, 1956):313.

No Author Listed. "Lycoming Unveils XT 53, First U.S. Free Turbine." American Aviation 19 (February 27, 1956):42.

No Author Listed. "Mobile (Portable) Stand Aids Jet Test." Air Force Times 16 (April 14, 1956):30.

No Author Listed. "More About the Eland." Aeroplane 90 (April 20, 1956):277.

No Author Listed. "More About the Gyron Junior." Flight 70 (September 7, 1956):425.

No Author Listed. "NACA Studies Jet Flap As Means of Reducing Runway Requirements." American Aviation 20 (October 22, 1956):158.

No Author Listed. "Napier Engages U.S. Firm to Promote Re-engining U.S. Transports with Elands." American Aviation 19 (May 7, 1956):78.

No Author Listed. "New Engine Line Cuts Inventory, Test Time." Aviation Age 25 (January 1956):139.

No Author Listed. "New French Turbine Engines." American Aviation 19 (March 12, 1956):36.

No Author Listed. "New Hunter Invention Burps Engines Clear." Air Force Times 16 (March 17, 1956):12.

No Author Listed. "New Jet Cleaning Method Tested at Webb Conclave." Air Force Times 17 (December 15, 1956):37.

No Author Listed. "Four Derby Winners (Dart Turboprop; Tyre Turboprop; Avon Turbojet; Conway By-pass)." Flight 70 (August 17, 1956):249.

No Author Listed. "New Lycoming." Canadian Aviation 29 (October 1956):29.

No Author Listed. "New Sapphire Series." Aeroplane 91 (October 19, 1956):587.

No Author Listed. "Orion; First Details of Bristol's New Turboprop." Flight 70 (October 26, 1956):677.

No Author Listed. "P&W, Allison Gain Long Lead In Turbine Race." American Aviation 19 (January 16, 1956):85.

No Author Listed. "P&W Plans Full Parts Support for R-985; SAC Forum Hears." American Aviation 20 (October 8, 1956):52.

No Author Listed. "P&W Unveils J52, New Medium Thrust Jet." photo only American Aviation 20 (December 31, 1956):31.

No Author Listed. "Pentagon Releases GE Jet for Commercial Use." American Aviation 19 (April 23, 1956):184.

No Author Listed. "Progress In Jets." Ryan Reporter 17 (August 1956):2.

No Author Listed. "Research and Development Trends: Propulsion." Aviation Age 25 (June 1956):B3.

No Author Listed. "Rolls-Royce Building \$10.7 Million Supersonic Engine Test Facility." American Aviation 19 (May 21, 1956):43.

No Author Listed. "Rolls-Royce High Altitude Facilities." Flight 69 (March 16, 1956):308.

No Author Listed. "Rolls-Royce Turboprops." Flight 69 (June 29, 1956):839.

No Author Listed. "SAC Personnel Confronted With Water Problem." Army, Navy, Air Force Review 77 (September 1, 1956):16.

No Author Listed. "Sapphire 7." Flight 70 (November 9, 1956):756.

No Author Listed. "Security Keeps Jet Engine Data from Airlines." American Aviation 19 (January 30, 1956):38.

No Author Listed. "Shakedown Completed On Travis Engine Cell." Air Force Times 16 (January 7, 1956):13.

No Author Listed. "Some Aspects of Supersonic Turbojets." Aeroplane 91 (November 23, 1956):793.

No Author Listed. "Still-better Big Turbojets." Flight 70 (September 7, 1956):426.

No Author Listed. "Supersonic Turbojet." Flight 69 (May 11, 1956):557.

No Author Listed. "Test Stand Gages F-100 Thrust." Aviation Age 26 (August 1956):64.

No Author Listed. "Those Big Russian Jet Engines (Why Pentagon Not Interested)." American Aviation 19 (May 21, 1956):9.

No Author Listed. "Three-way Guide to British Aircraft." Aeronautics 35 (September 1956):100.

No Author Listed. "Time-saving Computer to Cut Cost of Jet Engine Development." Armed Forces Management 2 (July 1956):29.

No Author Listed. "Turbine Engine Testing." Aeroplane 90 (May 18, 1956):409.

No Author Listed. "Turbine Engines in Retrospect and Prospect." Aeroplane 91 (November 30, 1956):818.

No Author Listed. "Turbine Orders Now Total 682; Turboprops Lead Jets, 401 to 281." American Aviation 19 (March 12, 1956):11.

No Author Listed. "Turbojet Engine (Bristol Olympus BO 1.11)." Military Review 36 (July 1956):72.

No Author Listed. "Turbojet Transports by Boeing." Aeroplane 90 (January 27, 1956):122.

No Author Listed. "Turboprop Proving Speeded by MATS Hour Flight Tests." Army, Navy, Air Force Journal 93 (July 28, 1956):31.

No Author Listed. "Turboprop Use Speeded by Kelly Tests." Air Force Times 16 (July 21, 1956):48.

No Author Listed. "Turboshaft Called Mightiest Small 'Engine of Future' for 'Copters." Air Force Times 16 (May 12, 1956):4.

No Author Listed. "Turboshaft Engine Introduced." Naval Aviation News (July 1956):36.

No Author Listed. "Two T34 Powered U.S.A.F. Transports." Flight 69 (February 10, 1956):161.

No Author Listed. "U.S., U.K. Agree on Turbine Standards." American Aviation 19 (March 12, 1956):11.

No Author Listed. "AF Jet Experience Should Help Airlines." American Aviation 20 Pt. 1 (November 5, 1956):68.

No Author Listed. "AF De-bugging of Jets Will Aid Airlines." American Aviation 20 Pt. 2 (November 19, 1956):98.

No Author Listed. "Visit by A U.S. Turboprop." Aeroplane 90 (February 10, 1956):163.

No Author Listed. "VTOL Engine Test." Ryan Reporter 17 (June 1956):6.

- No Author Listed. "Russian Theory; Split-compressor Theory." Aviation Week 65 (October 1, 1956):54.
- Novak, R. A. "Jet Engine Compressor Problems In High Speed Flight." Aviation Age 25 (June 1956):B10.
- Osmun, William G. "Which Engine Is Best For Your DC-37?" Aviation Age 25 (April 1956):160.
- Owner, F. H. "Sir George Cawley Memorial Lecture: Mr. F. H. Owner On Engine Development." Flight 70 (November 23, 1956):818.
- Pearson, Harry. "Analysis of the Bypass Jet Engine." Aviation Age 26 (July 1956):32.
- Penn, A. J. "Compressor Design is Key to Napier Eland's Strong Points." Aviation Age 26 (October 1956):28.
- Posch, K. A. "Jet Blanket Connector." Aviation Age 26 (November 1956):95.
- Schilling, B. "Cooling At High Speeds." Aeroplane 91 (December 7, 1956):46.
- Shire, R. J. "Why Did the Dart Succeed?" Aviation Age 25 (January 1956):34.
- Simmons, H. T. "Light Turboprop Engine Steals Copter Show; Holds Much Promise." American Aviation (May 21, 1956):32.
- Smith, C. W. "Aircraft Gas Turbines." Review Canadian Aviation 29 (May 1956):91.
- Smith, J. F. "Flights For Proof." United Aircraft Quarterly Bee-Hive 30 (Summer 1956):12.
- Stein, Joe. "Power Panorama." Naval Aviation News (February 1956):1.
- Stevens, J. H. "New Engines Pose Wide Variety of Problems." American Aviation 20 (October 22, 1956):42.
- Stevens, J. H. "The Case for the By Pass Engine." American Aviation 19 (March 26, 1956):35.
- Stevens, J. H. "The Place of British Power Plants In the World's Aviation." Aeronautics 35 (September 1956):88.
- Stewart, Oliver. "Technical Training Emphasized." Canadian Aviation 29 (July 1956):52.
- Vandyk, Anthony. "Allison Drives for Foreign Commercial Sales." American Aviation 19 (April 9, 1956):36.
- Vandyk, Anthony. "Why Present Windtunnels Are Inadequate." American Aviation 20 (October 22, 1956):98.
- Wilkinson, P. H. "Aircraft Engines of the World, 1956." Canadian Aviation 29 (September 1956):45.
- Winchester, J. H. "New Power for Air Travel." American Mercury 82 (April 1956):42.



1957

- Allen, Maj Gen B. E. "What We've Learned About Turboprops." Air Force Magazine 40 (March 1957):82.
- Andrews, R. C. "Get More Engine Hours for Your Dollar!" Aviation Age 28 (September 1957):224.
- Beller, W. "Small Turbojets Challenge High-thrust Engines." American Aviation 21 (December 30, 1957):30.
- Beller, W. "Wanted: Better Fuel-control Test Stands For Jets." American Aviation 20 (May 20, 1957):43.
- Brannan, Peter. "Jet Engine Surgery Wages War on Fatigue." Canadian Aviation 30 (May 1957):26.
- Bulban, Erwin J. "Afterburner Pushes F8U-1P to Trans-U.S. Speed Mark." Aviation Week 67 (July 22, 1957):30.
- Butz, J. S. Jr. "Turbojets are Theoretically Capable of Mach 4 Speeds." Aviation Week 67 (October 28, 1957):86.
- Cashman, Don. "Factory to Pilot---A J57's Initial Journey." United Aircraft Quarterly Bee-Hive 32 (Summer 1957):24.
- Chatfield, Chester. "Jet Engines by Rolls-Royce." Boeing Magazine 27 (September 1957):10.
- Clarkson, R. M; and Newman, D. R. "The Comparative Economics of Jet and Propeller-turbine Operations." Flight 72 (July 5, 1957):8.
- Clarkson, R. M. "Turboprop v. Turbojet: Round 8." Flight 72 (September 6, 1957):409.
- Cole, A. L. "Supersonic Power Plant." Canadian Aviation 30 (August 1957):66.
- Coughlin, W. J. "Flameouts Trouble RAF Comets." Aviation Week 67 (August 19, 1957):40.
- Cushman, R. "Gyron Fits Mach 3 Propulsion System." Aviation Week 67 (August 26, 1957):62.
- Cushman, R. "Propulsion Bucks Heat, Fuel Limits." Aviation Week 66 (February 25, 1957):191.
- Cushman, R. "GM Seeks Fluidity in \$60 Million Engine R&D Facility." Aviation Week 67 (October 7, 1957):70.
- Dawson, L. G.; and Lovesay, A. C. "By-pass Assessment; A Plain Man's Guide to the Rolls-Royce Conway." Flight 71 (February 8, 1957):133.
- DeBiasi, Victor. "Combustion Starter Fills Interceptor Needs." Aviation Age 27 (June 1957):106.
- Dibble, C. G. "Turbojets for Advanced Missiles?" Aviation Age 28 (December 1957):36.

- Franz, Anselm. "Some Experiences in the Development and Application of Lycoming's T53 Gas Turbine Engine." American Helicopter (March 1957):6.
- Goldberg, D. C. "Titanium Cut J54 Weight By 16 Percent." Aviation Age 27 (June 1957):112.
- Haddaway, G. E. "Quiet, Please (Zephyr TJ38 Turbojet)." Flight Magazine 46 (August 1957):34.
- Hanink, D. K. "Investment Casting Bids for Big Role In Jet Engines." Aviation Age 27 (February 1957):94.
- Hawthorne, R. "Alloy Titanium in P&W J57 Jet Engines." Aviation Age 28 (August 1957):34.
- Hawthorne, R. "Designing the World's Most Powerful Turbojet." Aviation Age 28 (October 1957):26.
- Hawthorne, R. "New Italian Turbojet (Fiat 4002) for Small Aircraft." Aviation Age 27 (May 1957):32.
- Hillard, Capt S. D. "Keep Your Horsepower Groomed." Combat Crew 8 (August 1957):26.
- Hooker, Dr. S. G. "Bristol Orion Narrows Gap Between Turboprops and Jets." Aviation Age 27 (April 1957):34.
- Hunter, F. S. "Super B Engine Boosts C-46 Utilization." American Aviation 20 (February 11, 1957):95.
- Keast, F. H. "Choosing An Advanced Turbojet Design." Aviation Age 27 Pt. 1 (February 1957):36.
- Keast, F. H. "Choosing An Advanced Turbojet Design." Aviation Age 27 Pt. 2 (March 1957):60.
- Lombard, A. A. "The Conway (By-pass) Engine." Esso Air World 10 (July-August 1957):7.
- MacGregor, Bob. "Power Curves." Flight Magazine 46 (February 1957):32.
- Manton, Grenville. "Salute to Seguin." Aeronautics 36 (June 1957):46.
- Morgan, P. F. "The Formation of Vortices at Aircraft Gas Turbine Air Intakes." Aeronautics 35 (January 1957):72.
- Moser, W. P. "Reds' Type K Out Performs Western Turboprops." Aviation Age 28 (July 1957):50.
- No Author Listed. "\$1.3-Million Order (for J44 Jet Engines) Is Placed By Navy." Air Force Times 18 (October 26, 1957):33.
- No Author Listed. "16,000 lb Thrust - And Ready For Production: Bristol's Olympus 6." Flight 71 (February 15, 1957):200.
- No Author Listed. "AC Lab Checks Out Whole Aircraft Electric System." Aviation Age 28 (October 1957):60.
- No Author Listed. "Advanced Turbojet (Orpheus B. or 3 of Great Britain)." Military Review 37 (May 1957):70.

No Author Listed. "Aerial Jeeps (Prototypes Ordered by Army)." Military Review 37 (November 1957):68.

No Author Listed. "Aero Design, Bendix, Lycoming Begin Cooperative Engine Program." Skyways 16 (April 1957):48.

No Author Listed. "Aero Engines 1957." Flight 72 (July 26, 1957):111.

No Author Listed. "AF Cancels J91 Project." American Aviation 21 (December 2, 1957):21.

No Author Listed. "AF to Spend \$893 Million on Maintenance and Overhaul." American Aviation 20 (May 20, 1957):91.

No Author Listed. "Air Force Contract (To Improve the J79 Jet Engine) to GE Division." Armed Forces Management 3 (July 1957):16.

No Author Listed. "Air Materiel Command Awards GE Big Contract (for J85 Engine)." American Aviation 21 (July 15, 1957):44.

No Author Listed. "Aircraft and Aero Engine Manufacturers (Canada)." Canadian Aviation 30 (April 1957):27.

No Author Listed. "Aircraft Engines in 1957." Interavia 12 (October 1957):1029.

No Author Listed. "Allison Gets Contract For New Turboprop Engine." American Aviation 21 (October 21, 1957):130.

No Author Listed. "Alloy May Give 100mph Boost to Jet Planes." Science News Letter 71 (April 27, 1957):262.

No Author Listed. "AMC Reduces Requirements for Critical Metals." American Aviation 21 (August 26, 1957):35.

No Author Listed. "An Aerial Jeep (To Be Developed by the Army)." Armor 66 (September-October 1957):68.

No Author Listed. "Analyzer Checks Aircraft Electrical Circuits Quickly." Military Electronics 3 (August 1957):28.

No Author Listed. "Axial-flow Turbine for F-104." (Photo Only) American Aviation 21 (November 4, 1957):61.

No Author Listed. "Boeing Favors Water Injection For Jet Engines." chart only American Aviation 21 (August 12, 1957):79.

No Author Listed. "Bristol Orpheus Turbojet." Interavia 12 (July 1957):721.

No Author Listed. "Bristol Orpheus." Flight 72 (November 22, 1957):809.

No Author Listed. "British Aero Engines 1957." Flight 72 (August 30, 1957):331.

No Author Listed. "C-W Europa Lab Certified by USAF." Army, Navy, Air Force Journal 94 (March 16, 1957):30.

No Author Listed. "CAA Airworthiness Directive 57-2-2 Lycoming." Skyways 16 (March 1957):44.

No Author Listed. "CAA Awards Certificates to P&W for J57 and J75." American Aviation 20 (March 25, 1957):15.

No Author Listed. "CAA Certifies Allison 501-D13 Turboprop." American Aviation 21 (October 7, 1957):24.

No Author Listed. "CAA Orders Check on Lycoming Engines." American Aviation 20 (February 11, 1957):99.

No Author Listed. "Cleaning With Sound." Army, Navy, Air Force Register 78 (November 30, 1957):6.

No Author Listed. "Cold Engine Starts." Canadian Aviation 30 (February 1957):92.

No Author Listed. "Convair Buys \$20 Million CJ805 Jets for 8805." American Aviation 20 (March 25, 1957):75.

No Author Listed. "Convair's Supersonic B-58." Canadian Aviation 30 (January 1957):79.

No Author Listed. "Curtiss-Wright Buys Rights to Build, Sell Iroquis." American Aviation 21 (October 7, 1957):25.

No Author Listed. "Curtiss-Wright Plans to Enter Jet Market (With Series 550)." American Aviation 20 (May 20, 1957):28.

No Author Listed. "Curtiss-Wright Unveils Jet Thrust Reverser." American Aviation 20 (March 11, 1957):15.

No Author Listed. "DeHavilland Engines 1957; Turbojets and Rockets of Advanced Design." Flight 71 (March 8, 1957):296.

No Author Listed. "DeHavilland Turbo Powered Accessories." Shell Aviation News No. 232 (October 1957):16.

No Author Listed. "Doctor USAF and the Ailin' Engine." Aircraft Accident & Maintenance Review 12 (July 1957):2.

No Author Listed. "Double Mamba ASMD.8; Development of Armstrong Siddeley's Double Turboprop." Flight 72 (November 22, 1957):815.

No Author Listed. "Douglas 'Blowaway Jet' Prevents Engine Damage." American Aviation 20 (May 20, 1957):52.

No Author Listed. "Engine Development (the Gyron and Gyron Junior in Great Britian)." Military Review 36 (January 1957):69.

No Author Listed. "Engines and Accessories." Flight 72 (September 13, 1957):442.

No Author Listed. "Excerpts From Pratt & Whitney Engine Maintenance Forum" Skyways 16 (July 1957):30.

No Author Listed. "Experienced Engine (J57)." Boeing Magazine 27 (June 1957):10.

No Author Listed. "F-100 Quirk (In Starting engines)." Air Force Times 18 (September 21, 1957):15.

No Author Listed. "First German-Made Engine Since WWII." American Aviation 20 (March 25, 1957):38.

No Author Listed. "Fuel Additive Boosts Turbo Compound's Power." American Aviation 21 (July 15, 1957):75.

No Author Listed. "General Electric Gets Air Force Jet Engine Contract." Armed Forces Management 3 (June 1957):35.

No Author Listed. "General Electric Gives New Specs on T58 Performance." American Aviation 21 (November 18, 1957):38.

No Author Listed. "General Electric Plans 2,600-hp Gas Turbine." American Aviation 21 (October 7, 1957):30.

No Author Listed. "General Electric To Develop T64 Engine for Navy." American Aviation 20 (May 20, 1957):90.

No Author Listed. "General Electric Unveils J-79." Air Force Magazine 40 (July 1957):86.

No Author Listed. "General Electric's Versatile J-79 Jet." Ryan Reporter 18 (October 1957):15.

No Author Listed. "Giant at Hartford; Some Notes on Pratt & Whitney Aircraft." Flight 71 (June 14, 1957):799.

No Author Listed. "Good Things Seen Ahead for Services in Small Turbojet Engine Packages." Army, Navy, Air Force Journal 95 (December 7, 1957):30.

No Author Listed. "Got A Problem? (Test Cell Modification)." Aircraft Accident & Maintenance Review 12 (March 1957):10.

No Author Listed. "Great Britain's Aero-Engines." Aeronautics 37 (September 1957):102.

No Author Listed. "Geuyron: De Havilland's Supersonic Turbojet, With 25,000 lb Reheat Rating." Flight (August 2, 1957):163.

No Author Listed. "High-Altitude Test Plant." Military Review 36 (February 1957):69.

No Author Listed. "Hot Rod J47 Operates At Unusually High Temperatures)." Air Force Magazine 40 (June 1957):111.

No Author Listed. "House Group Studies Air Engine Industry." Army, Navy, Air Force Journal 94 (March 30, 1957):30.

No Author Listed. "How Lycoming Mass-Produces J57 Parts." American Aviation 20 (January 28, 1957):36.

No Author Listed. "How Reds Used Captive Brains." Life 42 (May 27, 1957):77.

No Author Listed. "Iroquois at Farnborough." Canadian Aviation 30 (October 1957):65.

No Author Listed. "Iroquois for the U.S." Canadian Aviation 30 (November 1957):108.

No Author Listed. "Iroquois; Orenda Engines' Great Supersonic Turbojet." Flight 72 (September 6, 1957):412.

No Author Listed. "J75 Turbojet In Production." Armed Forces Management 3 (July 1957):39.

No Author Listed. "J47 Operates At Temperatures In Excess of 1,600 Degrees F." American Aviation 20 (May 6, 1957):30.

No Author Listed. "Jet Engine Powers Plane Twice Speed of Sound." Science News Letter 71 (June 29, 1957):405.

No Author Listed. "Jet Engine Test Facility in Operation at Robins." Air Force Times 18 (August 17, 1957):48.

No Author Listed. "Jet Flame-outs Stopped by Platinum Catalysts." Science News Letter 72 (August 10, 1957):88.

No Author Listed. "Jet-blast Fence Withstands High Temperatures." photo only American Aviation 21 (August 12, 1957):83.

No Author Listed. "Lightweight Jet Engines (British Blackburn Turbomeca Palos 600)." Military Review 36 (February 1957):69.

No Author Listed. "Link Jet Trainer May Cut Flight-maintenance Costs 60%." American Aviation 21 (October 21, 1957):83.

No Author Listed. "Lycoming Forum." Skyways 16 (March 1957):40.

No Author Listed. "Lycoming T53 Program." Flight Magazine (December 1957):36.

No Author Listed. "Made in Europe: Western Europe's Engines, Aircraft and Guided Missiles." Interavia 12 (March 1957):207.

No Author Listed. "NACA Develops New Jet Thrust Device; Gives Pilot Forward and Reverse Control." Army, Navy, Air Force Journal 95 (December 14, 1957):21.

No Author Listed. "NACA Reveals Details of Mach 4 Turbojet." American Aviation 21 (October 21, 1957):117.

No Author Listed. "NACA Scientists Cite Mach 4 Speeds." Army, Navy, Air Force Journal 95 (October 12, 1957):31.

No Author Listed. "Napier Gazelle; A 1,000 To 2,000 h.p. Free-turbine Unit." Flight 71 (May 10, 1957):630.

No Author Listed. "New Angles on Engine Testing." Flight 71 (February 15, 1957):226.

No Author Listed. "New Fuel Reported Useful for Starting Stalled Jets." American Aviation 21 (July 29, 1957):19.

No Author Listed. "New GE Engine (J79) Boasts Most Thrust Per Pound." Army, Navy, Air Force Journal 94 (May 25, 1957):30.

No Author Listed. "New GE Engine (J79) Unveiled." Army, Navy, Air Force Review 78 (June 1, 1957):23.

No Author Listed. "New Jet (J-79) Powerplant Unveiled." Naval Aviation News (July 1957):29.

No Author Listed. "Engine Lives Increase (Bristol Centaurus, Rolls-Royce Dart)." American Aviation 21 (September 9, 1957):71.

No Author Listed. "J57 Jet Engine May Be Replaced." Army, Navy, Air Force Review 78 (June 8, 1957):6.

No Author Listed. "New Lighter Jet Engines Seen Halting Cost Spiral." Air Force Times 18 (December 14, 1957):6.

No Author Listed. "New Steel Alloy Said to Assure Supply of Jet-engine Bearings in Emergency." American Aviation 21 (June 17, 1957):52.

No Author Listed. "New Test Stand Measures Jet Thrust Up to 30,000 lbs With Great Accuracy." American Aviation 20 (January 14, 1957):40.

No Author Listed. "Orenda Reveals First Details of Big Iroquois Turbojet." American Aviation 21 (August 26, 1957):36.

No Author Listed. "Pacific Airmotive to Overhaul 707 Engines." American Aviation 20 (May 6, 1957):79.

No Author Listed. "Paris Engine Fair." Interavia 12 (July 1957):678.

No Author Listed. "Paris Show; A First Appraisal of the 22nd Salon." Flight 71 (May 31, 1957):733.

No Author Listed. "Pentagon Fiscal Officials Plan Scrutiny of Jet Engine Costs." Army, Navy, Air Force Review 78 (June 15, 1957):17.

No Author Listed. "Pentagon Okays Lycoming T55; Avco Releases Details." American Aviation 20 (March 25, 1957):75.

No Author Listed. "Power for Supersonic Flight." Interavia 12 (October 1957):1026.

No Author Listed. "Pratt & Whitney - Airwork (Aircraft Operations Symposium, 19-20 September 1957, Millville, N.J.)." Skyways 16 (November 1957):26.

No Author Listed. "Pratt & Whitney Panel (Round Table)." Skyways 16 (May 1957):16.

No Author Listed. "Pratt & Whitney Uses C-124 as Testbed for T57 Turboprop." (photo only)." American Aviation 20 (January 28, 1957):26.

No Author Listed. "Problem Seals and the J57." Aircraft Accident & Maintenance Review 12 (September 1957):6.

No Author Listed. "Production of A Turbojet." Interavia 12 (October 1957):1024.

No Author Listed. "Progress With the Orpheus; Bristol's Lightweight Turbojet Advance to Higher Powers." Flight 72 (July 5, 1957):21.

No Author Listed. "Propjet Engine Digests Hard-metal Bolt." Skyways 16 (July 1957):21.

No Author Listed. "Removing Jet Blast Danger." Canadian Aviation 30 (October 1957):75.

No Author Listed. "Rolls-Royce Avon 200 Series." Flight 72 (October 11, 1957):569.

No Author Listed. "Ryan Ready to Deliver First DC-8 Engine Package." American Aviation 1 (September 9, 1957):106.

No Author Listed. "Small Engine (YT-62) Being Built Designed to Power One-man Copter." Naval Aviation News (August 1957):18.

No Author Listed. "Soft Water Needed for Jet Engine Tests." Aviation Age 27 (February 1957):40.

No Author Listed. "Starfighter Air Intakes." Air Pictorial 19 (March 1957):77.

No Author Listed. "Test Bed for the Iroquois." Canadian Aviation 30 (July 1957):46.

No Author Listed. "Toward a Superjet." Newsweek 49 (April 22, 1957):112.

No Author Listed. "Trend of the Turbine." Flying Safety 13 (September 1957):2.

No Author Listed. "Turbine Builders Unveil Top Engines (J75, J79, TJ38)." American Aviation 21 (June 3, 1957):38.

No Author Listed. "Turbine Engine Position in 1957." Interavia 12 (October 1957):1021.



No Author Listed. "Turbo-liner Begins Extensive Test Program." Armed Forces Management 3 (May 1957):10.

No Author Listed. "Turbo-prop Business Aircraft Discussed at Denver." Skyways 16 (November 1957):17.

No Author Listed. "Turbo-prop Version of DC-3 Produced by Handley Page." Skyways 16 (December 1957):55.

No Author Listed. "TWA Plans \$12-Million Jet Overhaul Base." American Aviation 21 (September 9, 1957):91.

No Author Listed. "USAF Contracting More and More Maintenance and Overhaul Work." American Aviation 20 (March 25, 1957):13.

No Author Listed. "Vertol says Turbines Boost H-21 Payload 40%, Speed 50 mph." American Aviation (December 16, 1957):31.

No Author Listed. "Westinghouse Announces Jet Engine Plans." American Aviation 21 (June 17, 1957):56.

No Author Listed. "Westinghouse Displays J54 Turbojet at Olathe." Army, Navy, Air Force Journal 94 (June 1957):30.

No Author Listed. "Westinghouse Receives New Contract for J34." American Aviation 21 (November 18, 1957):23.

No Author Listed. "Westinghouse Unveils J54, New Jet Engine." (photo only) American Aviation 20 (January 14, 1957):60.

No Author Listed. "Wraps Off Orenda's Iroquois." Canadian Aviation 30 (August 1957):75.

No Author Listed. "Aluminum Fuel is Tested for Jet Engines." Aviation Week 66 (January 28, 1957):80.

No Author Listed. "German Deportee Describes Bear Engine." Aviation Week 66 (April 8, 1957):53.

No Author Listed. "J79 Utilizes Nozzle Vanes, Variable Stators." Aviation Week 66 (July 1, 1957):60.

No Author Listed. "Surface Protection Needed in Jet Molybdenum." Aviation Week 66 (April 15, 1957):77.

O'Donnell, William. "New Additive Promises 20% Boost in Engine Power." American Aviation 21 (November 4, 1957):41.

Osmun, William G. "Why TCA Picked the Conway for its DC-8s." Aviation Age 28 (August 1957):192.

Posch, K. A. "Ramjet Burner." Aviation Age 27 (June 1957):127.

- Posch, K. A. "Variable Area Jet Nozzle." Aviation Age 28 (August 1957):86.
- Preston, Brig Gen J. J. "Supercooled Moisture vs. the J47 Engine." Combat Crew 7 (January 1957):12.
- Reul, R. P. "Standardized Thrust Analysis Catches Performance Lags In Time." Aviation Age 28 (December 1957):46.
- Robertson, Frank. "Turboprop vs. Turbojet; Round 7 in the Controversy." Flight 72 (August 2, 1957):157.
- Schaeffer, Charles. "Roy Hurley Disputes Herbert on Curtiss-Wright Charges." American Aviation 21 (October 7, 1957):32.
- Simmons, H. T. "Engine Picture." American Aviation 21 (August 29, 1957):29.
- Smith, J. F. "Dependable and Ready (JT3 and JT4)." United Aircraft Quarterly Bee-Hive 32 (Summer 1957):13.
- Stack, Bruce A. C. "Engine Intake Controls." Flight 72 (December 27, 1957):1000.
- Stehling, K. R. "Ignition Systems Must Keep Up With Engine Performance." Aviation Age 28 (September 1957):56.
- Stevens, J. H. "Details of DeHavilland Gyron, Mach 2-3 Turbojet." American Aviation 21 (August 12, 1957):59.
- Stevens, J. H. "Farnborough 1957; Reviews of the Major Aircraft, Aero-engine, and Missile Manufacturers on the 1957 S.B.A.C." Air Pictorial 19 (September 1957):290.
- Stone, I. "Titanium Displaces Steel in J57 Engine." Aviation Week 66 (April 8, 1957):67.
- Tozer, Eliot. "Pan Am Gets Ready For Jet Engine Overhaul." Aviation Age 28 (September 1957):232.
- Van Osten, Richard. "Air Log's Jet Engine Test System Arouses Interest." American Aviation 21 (July 29, 1957):32.
- Vandyk, Anthony. "How Bristol Licked Britannia Flame-out." American Aviation 20 (February 25, 1957):80.
- Vandyk, Anthony. "REAL's Turboprop Re-engining is Significant." American Aviation 20 (April 8, 1957):101.
- Warring, R. W. "Current Practice in Thrust Measurement." Aeronautics 36 (August 1957):76.
- 1958
- Ashwood, P. F; and Lean, D. "Jet Deflection Flight Tests." Shell Aviation News No. 243 (September 1958):14.

- Bradford, Maj James W. "Supersabre's Super-sensitive Switch." Aircraft Accident & Maintenance Review 13 (January 1958):5.
- Brannan, Peter. "Rolls-Royce Gears for Turbine Engine Boom." Canadian Aviation 31 (July 1958):24.
- Bulban, Erwin J. "T53 Designed for Maintenance in Field." Aviation Week 11 (June 9, 1958):46.
- Coleman, Frank. "U.S.A.F. Tests Jet Engine in Wind Tunnel." American Helicopter 49 (February 1958):10.
- DeBiasi, Victor. "Design Progress: T53 Stresses' Universal Engine Concept." Space/Aeronautics (November 1958):30.
- Desoutter, D. M. "Putting the Jets In Their Place." Aeronautics 38 (May 1958):24.
- Eltis, E. "The Development of the Avon RA 29 Engine for Civil Jet Transport." Interavia 13 (December 1958):1269.
- Fioretti, A. P. "Development of the CJ805-21 Turbofan Engine." Interavia 13 (December 1958):1266.
- Greenwood, S. W. "Air-breathing Boost Units for Long-range Rocket Vehicles." Spaceflight 1 (July 1958):290.
- Grey, Jerry. "Jet Propulsion Looks to the Future." Astronautics 3 (March 1958):29.
- Hart, George V. "What's Behind Army's Turbine Engine Program." American Aviation (March 10, 1958):59.
- Heaston, Robert J. "The Future of Aircraft Fuels." Esso Air World 11 (July-August 1958):7.
- Hogenkamp, Myrle J.; and Wells, Marguerite. "Controlling A \$6 Billion Inventory (of AF Aircraft Engines)." Armed Forces Management 4 (July 1958):32.
- Jacquemin, Georges. "Choice of Powerplant." Canadian Aviation 31 (December 1958):58.
- Kenna, Capt W. E. "Proof of Quality: Tested at Trenton (Aeronautical Turbine Laboratory)." Naval Aviation News (April 1958):1.
- Knudsen, A. N. "Jet Engine Overhaul Stands: Vertical, Horizontal, or Both?" Business & Commercial Aviation 1 (February 1958):30.
- Kysor, Harley D. "Aircraft analysis: Turboprop Convairs." Business & Commercial Aviation 1 (March 1958):30.
- Lombard, A .A. "Thinking About Aircraft Engines." Shell Aviation News 204 (June 1958):14.
- Markham, B. G. "Getting A Civil Turbo-prop Into Service." Esso Air World 10 (January-February 1958):91.

Massey, B. S. "The Bristol Orpheus and the N.A.T.O. Light-weight Strike Fighter Programme." Interavia 13 (January 1958):40.

McLaughlin, George F. "Dual Jet Units Give Efficient Propulsion, Control Boundary Layer." Astronautics 3 (April 1958):74.

Miller, B.; and Stockwell, Richard E. "Russian Jet Engine." Ordnance 42 (May-June 1958):1084.

No Author Listed. "General Electric's \$20 Million Jet Engine Test Facility Will Be Ready for Mach 3 1/2 Speeds in 1958." Army, Navy, Air Force Journal 93 (February 18, 1956):30.

No Author Listed. "1958 Engine Picture." Interavia 13 (December 1958):1265.

No Author Listed. "100,000 Hours of Proof." United Aircraft Quarterly Bee-Hive 33 (January 1958):11.

No Author Listed. "Allison's Baby, A 250 H.P. Turboshift Unit With Outstanding Potentialities." Flight 74 (September 19, 1958):85.

No Author Listed. "Altitude Plant, Rolls-Royce's Privately-financed High-altitude Establishment." Flight 74 (October 3, 1958):551.

No Author Listed. "Avon RA29 Overhaul Life." Shell Aviation News No. 243 (September 1958):21.

No Author Listed. "Award Given BuAer Expert (Carlyl S. Fliedner)." Naval Aviation News (April 1958):12.

No Author Listed. "British Aero Engines, 1958." Flight 74 (August 29, 1958):336.

No Author Listed. "British Aero Engines." Aeronautics 39 (September 1958):94.

No Author Listed. "British Given New Powerplant Details." Missiles & Rockets 3 (January 1958):45.

No Author Listed. "Cold Weather Warmup." Skyways 17 (January 1958):30.

No Author Listed. "Convair Turboprop Conversions." Flight 74 (July 25, 1958):128.

No Author Listed. "Dart Up to Date." Flight 73 (February 28, 1958):276.

No Author Listed. "Dirty Engines + Dilution = Engine Failure." MATS Flyer 5 (March 1958):5.

No Author Listed. "Engines and Fuel Systems (Shown at the 1958 SBAC Display)." Flight 74 (September 12, 1958):446.

No Author Listed. "Foreign Object Damage Costs USAF More Than \$50 Million Annually." Air Force Times 18 (July 26, 1958):8.

No Author Listed. "Gas Turbines are Making Progress for Military." Business Week (May 1, 1958):157.

No Author Listed. "General Electric Promotes Turbojets for Ballistic Boosters." Missiles & Rockets 3 (February 1958):148.

No Author Listed. "General Electric Turbofan; Further Details of the CJ-805-21." Flight 74 (December 26, 1958):982.

No Author Listed. "Gnome, a 1,000 h.p. Turboshift Unit by De Havilland Engines." Flight 74 (August 15, 1958):236.

No Author Listed. "Helicopter and its Engine." American Helicopter 52 (October 1958):8.

No Author Listed. "High-Altitude Facility: Bristol Aero Engines' New Plant; 100,000 Feet and Mach 3.5 Conditions." Flight 73 (April 11, 1958):479.

No Author Listed. "High-altitude Testing by Rolls-Royce." Esso Air World 11 (November-December 1958):69.

No Author Listed. "It's for the Birds (Jet Engine Damage From Birds)." Combat Crew 8 (May 1958):7.

No Author Listed. "J57 Engine Combustion Chamber Problems." Aircraft Accident & Maintenance Review 13 (September 1958):10.

No Author Listed. "Jet Cal House (Jet Engine Calibration Test Booth)." Aircraft Accident Maintenance Review 13 (April 1958):4.

No Author Listed. "Jet-Packet." Esso Air World 10 (January-February 1958):112.

No Author Listed. "Jets and Acceleration, Some Thoughts On Present Shortcomings and Future Promise." Flight 73 (May 9, 1958):624.

No Author Listed. "Jets." National Education Association Journal 47 (February 1958):104.

No Author Listed. "Look What a Jet Engine can Swallow!" Popular Mechanics 109 (March 1958):87.

No Author Listed. "More Work from a Jet: Turbofans or Bypass Engines." Business Week (April 12, 1958):70.

No Author Listed. "Morning Walks Save Aircraft (Foreign Object Damage)." Air Force Times 19 (September 27, 1958):39.

No Author Listed. "Napier Aero-engines, Their Characteristics and Applications." Flight 73 (June 27, 1958):893.

No Author Listed. "New Jet Overhaul Uses Kit Concept." Armed Forces Management 4 (June 1958):30.

No Author Listed. "Non-prop Engines Pave Way to Space." Air Force Times 18 (March 15, 1958):6.

No Author Listed. "Operational Olympus." Flight 73 (March 7, 1958):302.

No Author Listed. "P.181 and 182." Flight 73 (February 21, 1958):234.

No Author Listed. "Power For the Short-range Jet, Straight Jet or By-pass?" Flight 74 (October 24, 1958):650.

No Author Listed. "Power Plants Large and Small Reciprocating to Rocket Engines - Designed to Keep Business Aircraft In the Air." Skyways 17 (September 1958):22.

No Author Listed. "Pratt & Whitney Aircraft's Jet-engine Assembly Area at East Hartford." United Aircraft Quarterly Bee-Hive 33 (Summer 1958):18.

No Author Listed. "Pratt & Whitney Aircraft's Medium-sized Turbojet, the J52." United Aircraft Quarterly Bee-Hive 33 (Fall 1958):inside fron.

No Author Listed. "Pratt & Whitney Engines for the Airlines and the Military Services." Interavia 13 (December 1958):1273.

No Author Listed. "Pratt & Whitney JT-12 and J58 Turbojets." Aeronautics 39 (November 1958):65.

No Author Listed. "Pratt & Whitney Turbofan." Flight 74 (December 19, 1958):935.

No Author Listed. "President Orders Jet Propulsion Lab Transferred from Army to NASA." Army, Navy, Air Force Journal 96 (December 6, 1958):1.

No Author Listed. "Proteus Progress." Flight 74 (July 11, 1958):37.

No Author Listed. "Ramjet Achieves Mach 2.5 In TET (at Arnold Engineering Development Center)." Air Force Times 18 (March 22, 1958):44.

No Author Listed. "Retention Problems Will Increase As Airlines Shift to Turbo-props." Air Force Times 18 (April 5, 1958):35.

No Author Listed. "Shaft Turbines by Lycoming." The Aeroplane (October 10, 1958):559.

No Author Listed. "SNECMA's Supersonic Turbojet." Interavia 13 (December 1958):1291.

No Author Listed. "Sound Suppressors for Jet Engines Tested." Astronautics 3 (January 1958):78.

No Author Listed. "Survey of the World's Aircraft Engines (Characteristics)." Interavia 13 (December 1958):1279.

No Author Listed. "T53 and T58: Two Small American Turboshift Engines." Flight (January 17, 1958):79.

No Author Listed. "Thinking About Engines (Summary of Lecture by A. A. Lombard)." Flight 73 (January 17, 1958):70.

No Author Listed. "Thousand-hour Jet: Rolls-Royce Avon RA29 Approved for Record Initial Overhaul Life." Flight 74 (August 1, 1958):159.

No Author Listed. "Transatlantic Turbofans, Ducted Fans from General Electric and Pratt & Whitney." Flight 73 (June 6, 1958):766.

No Author Listed. "Turbojet May Serve As ICBM Booster." Space Technology 1 (April 1958):46.

No Author Listed. "Up In Smoke." Aircraft Accident & Maintenance Review 13 (October 1958):7.

No Author Listed. "Versatile Test Stand for Jet Fuel Controls." Business & Commercial Aviation 1 (October 1958):47.

No Author Listed. "T53 Passes Stiff Army Test." Aviation Week (September 22, 1958):58.

Osmun, William G. "Jet Maintenance Plans Revealed (By ATA Maintenance Engineering Committee)." Business & Commercial Aviation 1 (March 1958):47.

Shanks, Robert B. "Trouble-shooting A Cold Weather System." Aircraft Accident & Maintenance Review 13 (November 1958):4.

Stanfield, R. I. "JT12 Design Geared to Permit Early Production Date." Aviation Week 69 (October 20, 1958):56.

Stephenson, J. M. "Bigger and Better Turbojets." Flight 73 (January 3, 1958):19.

Stevens, J. H. "The British Engine Scene." Air Pictorial 21 (July 1958):226.

Wheeler, Air Commodore A. H. "Adolescent Engines (Armstrong Siddeley P.181 and P.182 Turbohaft Engines)." Shell Aviation News No 244 (October 1958):18.

Yaffee, M. L. "Metal-base Fuels Tested for Turbojets." Aviation Week 69 (December 15, 1958):65.

Zaiman, Robert. "Project 57 (Maintenance Technique on J57 Engines at George AFB, Calif." United Aircraft Quarterly Bee-Hive 33 (Fall 1958):31.

1959

Anderton, D. A. "British Unveil Three Turbine Powerplants." Aviation Week 71 (September 28, 1959):54.

Banks, Air Commodore F. R. "Crystal Gazing (Aircraft Engines of the Future)." Interavia 14 (November 1959):1359.

Bulban, Erwin J. "T55 Cleared for Airframe use." Aviation Week (August 10, 1959):87.

Bunger, Dennen J. "Air-fuel combustion starter (MA-2)." Aircraft Accident & Maintenance Review 14 (May 1959):14.

Burgess, Neil.; and Fioretti, A. P. "Future Applications of Ducted Fan Power-plants." Esso Air World 12 (November-December 1959):64.

Butz, J. S. Jr. "J79 Uses Built-up Parts to Save Weight." Aviation Week 69 (August 11, 1958):69.

Butz, J. S. Jr. "Pratt & Whitney Evolves Turbofan from J57 Program." Aviation Week 70 (January 26, 1959):48.

Crawford, W. D. "Transition to Turbines." Flying 65 (October 1959):38.

Crawford, W. D. "Transition to Turbines." Flying (December 1959):42.

Daum, Noel. "The Griffon Aircraft and the Future of the Turbo-Ramjet Combination in the Propulsion of Supersonic Aeroplanes." Journal of the Royal Aeronautical Society 63 (June 1959):27.

Farris, CWO James W. "Jet Engine Vibration and Flight Line Analysis." Aircraft Accident & Maintenance Review 14 (August 1959):2.

Gerry, David C. "Gas Turbine Power Plants for Helicopters." USA Aviation Digest 5 (July 1959):23.

Gladych, Mike. "Turbofan Engines and Advanced Wings are Basis of Design for the New Boeing 707 'Bees'." Boeing Magazine 29 (September 1959):3.

Gray, H. M. "The Battle to De-Bug the Jets." Business & Commercial Aviation 2 (December 1959):26.

Hall, R. S. "The Allison Model 250 Engine." Shell Aviation News 254 (August 1959):14.

Hobbs, Allen. "European Starter Truck." Boeing Magazine 29 (September 1959):15.

Hobbs, Allen. "Power-Plant Revolution." Boeing Magazine 29 (December 1959):10.

Jerry, David C. "Gas Turbine Power Plants for Helicopters." USA Aviation Digest 5 (July 1959):23.

Johansen, H. O. "Turbofan Engines: Less Noise, More Push for Jets." Popular Science 175 (September 1959):120.

Keeler, Joseph G. "Flight Insurance (Testing of Jet Engines at Arnold Engineering Development Center)." Interceptor 1 (August 1959):14.

Lewis, Burnham M. "Jet Engine Overhaul...How American Airlines Does It." Business and Commercial Aviation 2 (June 1959):45.

Moncher, Frank L. "Starting a 'Blowtorch.'" Sperry-scope 15, No. 2 (September 1959):16.

Monteros, A. E. "How to Clean Jet Engines." Business & Commercial Aviation 2 (March 1959):36.

Munsey, H. H. "Turbine Power Seen Key to Helicopter Sales." American Helicopter 53 (January 1959):9.

No Author Listed. "250-HP Allison T1-63 for Lightplanes." Flight Magazine 48 (May 1959):18.

No Author Listed. "500-HP Pratt & Whitney Turboprop." Flight Magazine 48 (October 1959):27.



No Author Listed. "Aero Engines 1959 (Worldwide Compilation)." Flight 75 (March 20, 1959):388.

No Author Listed. "Air Force Orders Jet Power for Utility Training Plane." Army, Navy, Air Force Register 80 (March 7, 1959):23.

No Author Listed. "Allison Turbine for 4-Place Bell." Flight Magazine 48 (August 1959):30.

No Author Listed. "Auxiliary Power for the Jet Age." Interavia 14 (May 1959):550.

No Author Listed. "Avco, Lycoming, GE, Solar go to Bat." American Aviation (March 9, 1959):41.

No Author Listed. "Blow-Away Jet; Douglas Air Broom Keeps DC-8 Pod Free From Runaway Debris." Ryan Reporter 20 (May 1959):7.

No Author Listed. "Canadair 540." Skyways 18 (February 1959):20.

No Author Listed. "Dart Overhaul and Testing by B.E.A." Esso Air World 11 (March-April 1959):125.

No Author Listed. "Dart Overhaul by B.E.A." Flight 75 (February 6, 1959):194.

No Author Listed. "Development and Production of the Rolls-Royce Conway." Interavia 14 (November 1959):136. Listed. "Eland 1959, Napier's Turboprop Begins to Earn its Living." Flight 76 (November 27, 1959):637.

No Author Listed. "Fan Engine Boosts Jetliner Performance." Business & Commercial Aviation 2 (December 1959):36.

No Author Listed. "Florida's Jet Data Dopester." United Aircraft Quarterly Bee-Hive 34 (Spring 1959):8.

No Author Listed. "From Turbojet to Turbofan, Pratt-Whitney JT3 in 2 Versions." Interavia 14 (November 1959):1374.

No Author Listed. "General Electric J29, Novel Concept in F-104's Engine." Canadian Aviation 32 (October 1959):28.

No Author Listed. "General Electric's Small Turbojet; a Note on the J85: Simplicity in Design." Flight 76 (December 11, 1959):723.

No Author Listed. "Griffon II and Turbo-ramjets." Flight 75 (March 20, 1959):380.

No Author Listed. "J33 Engine Turbine Bucket Failure." Aircraft Accident & Maintenance Review 14 (October 1959):12.

No Author Listed. "Jet Engine Development 1939-1959 (Canada, Germany, Great Britain, France, Sweden, United States) (Chart Only)." Interavia 14 (November 1959):1362.

No Author Listed. "Jets and Turboprops Start Taking Over the Airplanes." Business Week (July 11, 1959):26.

No Author Listed. "JT-12 is Chosen to Power Sabreliner." Army Navy Air Force Journal 96 (February 28, 1959):27.

No Author Listed. "Lycoming T53 Gas Turbine Engine." Casting About 4 (August 2, 1959):1.

No Author Listed. "Navy's Search for Silence." Naval Aviation (April 1959):7.

No Author Listed. "Orpheus, a Versatile and Lightweight Turbojet." Flight 75 (February 13, 1959):219.

No Author Listed. "P.D.Q. Jet Pods (Quick Engine Change Kits)." Ryan Reporter 20 (May 1959):18.

No Author Listed. "Rolls-Royce Dart." Skyways 18 (February 1959):18.

No Author Listed. "Safe; Jet Ingestion." New Yorker 35 (August 22, 1959):25.

No Author Listed. "Seymour-Johnson Tests On-base Repair of J75's." Air Force Times 20 (August 15, 1959):16.

No Author Listed. "Symbiosis Shows the Way to Supersonic Success." Aeronautics 40 (June 1959):42.

No Author Listed. "Test Plants Yield Seeds of Turbine Success." Aeronautics 40 (September 1959):141.

No Author Listed. "Trench Speeds Jet Engine Disassembly, Photo essay." Business & Commercial Aviation 2 (April 1959):26.

No Author Listed. "Turbine Evolution." Skyways 18 (February 1959):14.

No Author Listed. "Turbine Wheel Problems." Aircraft and Maintenance Review 14 (January 1959):20.

No Author Listed. "Turbines Primed for Big Chance." Business Week (January 17, 1959):38.

No Author Listed. "Turbofans, a Survey of Current Airline Powerplants." Flight 76 (October 30, 1959):455.

Osmun, William G. "How Many Turbines for a Transport' Copter?" Business & Commercial Aviation 2 (September 1959):49.

Pennington, W. A. "British Turbine Engine Review." Shell Aviation News 258 (December 1959):14.

Stevens, J. H. "The British Aero-engine Scene." Interavia 14 (November 1959):1364.

Ward, G. H. "The General Electric J85 Turbojet Engine." Interavia 14 (November 1959):1371.

Watt, A. P. "Project Grubstake Launched to Solve Logistics Problem." Army, Navy, Air Force Register 80 (June 27, 1959):31.

Wheeler, Air Commodore A. H. "DeHavilland Gnome 1000-hp turboshaft." Shell Aviation News No. 255 (September 1959):14.

Wheeler, Air Commodore A. H. "Orpheus." Shell Aviation News No. 250 (April 1959):7.

1960

Butz, J. S. Jr. "Fan Burner Dominates Supersonic Designs." Aviation Week 73 (July 11, 1960):96.

Cramp, L. G. "A Cold Turbine Ejector Engine." Aeronautics 41 (February 1960):38.

Cushing, W. R.; and Morley, Dr. A. W. "Gas Turbines for Helicopters." American Helicopter 54 (January 1960):6.

Douglas, O. H. "The Heat is On - To Stop Turbine Wheel Over-Temp." Combat Crew 10 (January 1960):10.

Edwards, John L. "The First Supersonic Turbojet, GE's Huge J53 of 1950 Now Revealed." Flight 77 (April 29, 1960):594.

Ford, SMSgt John C. "Whatta Ya Know About Jet Engines and Their Costs?" Aircraft Accident & Maintenance Review 15 (June 1960):4.

Fowler, H. S. "Fighter Engines 1960." Air Pictorial 18 (December 1956):410.

Gooding, L. E. "Easy does it." Flying Safety 16 (April 1960):18.

Gray, H. M. "Sectionalized Turbine Overhaul Saves Labor and Spares." Business & Commercial Aviation 3 (July 1960):32.

Hanks, Capt Norris J. "True Automatic Start." Aerospace Safety Part 1 (December 1960):26.

Johnson, Dwight W. "Power Plant Perplexities of the B-47/J47 Engine." Aircraft Accident & Maintenance Review 15 (February 1960):8.

Lewis, G. M. "Claims for the Ducted Fan (BE58 Jet Engine)." Canadian Aviation 33 (January 1960):39.

Lewis, G. M. "The Ducted Fan." Interavia 15 (January 1960):63.

Manton, Grenville. "A VTOL Power Plant Project." Aeronautics 42 (June 1960):31.

Minarovich, Joseph T. "Automatic Jet Engine Time-Temperature Recorder System." Aircraft Accident & Maintenance Review 15 (July 1960):2.

Mize, James E. "The T53 Gas Turbine as Seen By Maintenance." USA Aviation Digest 6 (February 1960):29.

No Author Listed. "Aero Engines 1960 (Review of the World's Aero Engines)." Flight 77 (March 18, 1960):367.

No Author Listed. "Airline Engines, an Authoritative Opinion upon Turbofan and By-pass Engines." Flight 77 (April 8, 1960):473.

No Author Listed. "Bristol Siddeley's Fans, A New Generation of Gas Turbines." Flight 78 (August 12, 1960):210.

No Author Listed. "Conway, the Evolution of the First Rolls-Royce By-pass Turbojet." Flight 77 (January 15, 1960):77.

No Author Listed. "Data System Speeds Engine Development." Missiles and Rockets 7 (August 1, 1960):34.

No Author Listed. "Diversification Pays off for Southwest Airmotive (In Servicing Reciprocating Jet Engines)." Flight Magazine 49 (September 1960):36.

No Author Listed. "Engine News from GE (General Electric Company)." Flight 78 (August 12, 1960):212.

No Author Listed. "Enter the Turbofan." Photo United Aircraft Quarterly Bee-Hive 35 (Summer 1960):25.

No Author Listed. "Gnome, Design Features of the D.H. 1,000 H.P. Turboshift Engine." Flight 177 (April 29, 1960):587.

No Author Listed. "Monorail System Cuts Jet Engine Assembly Costs." Business & Commercial Aviation 3 (July 1960):32.

No Author Listed. "PT6 Design Cuts Costs." Canadian Aviation 33 (October 1960):41.

No Author Listed. "Rolls-Royce Conway, Anatomy of a By-pass Jet." Interavia 15 (March 1960):341.

No Author Listed. "Ryan Builds Unit for Record-setter." Ryan Reporter 21 (February 1960):25.

No Author Listed. "Servicing TCA's Jets." Canadian Aviation 33 (October 1960):36.

No Author Listed. "Thermodynamic Investigations for Aero Engine Improvement." Aeronautics 41 (February 1960):37.

No Author Listed. "Tomorrow's Aero Engines, A Valuable Exposition of Bristol Siddeley's Thinking." Flight 77 (January 1, 1960):8.

No Author Listed. "Turbojet Engine Compressor Stall." Aircraft Accident & Maintenance Review 25 (March 1960):16.

No Author Listed. "Tyne, the World's Most Efficient Turboprop." Flight 77 (April 22, 1960):563.

Papanek, Maxwell C "Jet Aircraft Tie-down Anchor Tests." Military Engineer 52 (November-December 1960):482.

- Simpson, G. R. "The Demand for Aircraft and the Aircraft Industry, 1907-1958." Journal of Economic History 20 (July 1960):361.
- Stanfield, R. I. "Versatile J85 Built for Maintainability." Aviation Week 72 (April 11, 1960):56.
- Taylor, Martin W. "Can Equalized Service Extend Jet Engine Life?" Business & Commercial Aviation (October 1960):32.
- Twomey, R. A. "Apron Planning for the Jets; Facing the Blast Problem: What Practical Tests Suggest." Flight 77 (June 24, 1960):872.
- 1961
- Bowling, A. G. "Extending the Overhaul Life of Turbine Engines." Interavia 16 (September 1961):1214.
- Clinton, A. C. "French Air-breathers." Aeronautics 44 (June 1961):44.
- Famiglietti, Gene. "New Astrojets Cut Flying Time." Air Force Times 21 (March 18, 1961):E2.
- Ferrara, P. J. "The Selection of a Supersonic Transport Powerplant." Interavia 16 (October 1961):1384.
- Flamand, Claude. "The Combined Turbojet/Ramjet for Supersonic Aircraft." Interavia 16 (November 1961):1574.
- Flynn, George. "Jet Power Comes Down to Earth (As Compressor for Natural Gas Pipelines)." United Aircraft Quarterly Bee-Hive 36 (January 1961):21.
- Gadd, E. R. "The Development of High Temperature Materials (for Turbine Blades)." Interavia 16 (September 1961):1221.
- Gunston, W. T. "Six Derby Winners; Rolls-Royce Aero Gas Turbines." Flight 79 (May 18, 1961):667.
- Hanks, Capt Norris J. "True Automatic Start." Aerospace Safety Part 2 (January 1961):4.
- Hooker, Dr. S. G. "Fan Engines for Vertical and Short Take-off Aircraft." Interavia 16 (January 1961):63.
- Kackley, SMSgt Paul D. "SAC's Super Stratofortress." Airman 5 (September 1961):28.
- Keenan, J. G. "Supersonic Engine Problems." Interavia 16 (October 1961):1387.
- Lambert, C. M. "Rover's 90 h.p. Turboprop." Flight 79 (February 10, 1961):174.
- Lewis, Burnham M. "Business Twin Jet: the Price Sounds Right." Business & Commercial Aviation (May 1961):28.
- Lewis, Burnham M. "Dark-horse Turboprop (Dassault MD-415)." Business & Commercial Aviation (January 1961):33.

McGrath, James J. "Hot Pipe Sensitivity." Aircraft Accident & Maintenance Review 16 (June 1961):6.

Myers, C. W.; and Nicol, Fergus. "Accident Involved Engines." Interceptor 3 Pt. 1 (February 1961):8.

Myers, C. W.; and Nicol, Fergus. "Accident Involved Engines." Interceptor 3 Pt. 2 (March 1961):57.

Myers, C. W.; and Nicol, Fergus. "Accident Involved Engines." Interceptor 3 Pt. 3 (April 1961):18.

No Author Listed. "60-90 HP, for Lightplane Turboplane." Flight Magazine 50 (March 1961):33.

No Author Listed. "Aero Engines 1961 (Review of the World's Aero Engines)." Flight 80 (July 20, 1961):77.

No Author Listed. "Bell Flying First 250-hp Turbine." Flight Magazine 50 (February 1961):21.

No Author Listed. "Better Bets in Turbines." Business Week (June 17, 1961):89.

No Author Listed. "Characteristics of Some Small and Medium Power Turbo-engines (Table Only)." Interavia 16 (July 1961):964.

No Author Listed. "Cheaper Starts for Jet Engines." Army, Navy, Air Force Journal 98 (May 27, 1961):26.

No Author Listed. "Fast and High in the Everglades (Pratt & Whitney Aircraft, Florida Research and Development Center)." United Aircraft Quarterly Bee-Hive 36 (Spring 1961):19.

No Author Listed. "General Electric Lift Fans." Interavia 16 (January 1961):96.

No Author Listed. "General Electric Presents Small Turbines for Varied Markets." Interavia 16 (July 1961):966.

No Author Listed. "Grim Prospects for the Commercial Gas Turbine Engine?" Aeronautics 43 (February 1961):24.

No Author Listed. "JT8D; Pratt & Whitney's Latest Engine." Flight 79 (June 29, 1961):892.

No Author Listed. "New Prospects for Gas Turbines: Rapid Advance of Small and Medium Turbo-Engines." Interavia 16 (July 1961):961.

No Author Listed. "New Turbine for Helicopters." Flight Magazine 50 (December 1961):47.

No Author Listed. "Olympian Heights; Mounting Thrust of Bristol Siddeley's Biggest Jet (Olympus Mk 301)." Flight 79 (February 24, 1961):233.

No Author Listed. "Orenda's (J79-7 Production) Program Gets New Boost." Canadian Aviation 34 (August 1961):22.

No Author Listed. "Orenda J79-7 Program: Planning the Power for the CF-104." Canadian Aviation 34 (May 1961):12.

No Author Listed. "Probing Into Propulsion Problems" Aircraft Accident & Maintenance Review 16 (May 1961):16.

No Author Listed. "Supersonic Transport Propulsion; Jet Engines for Supersonic Airliners." Interavia 16 (October 1961):1382.

No Author Listed. "T64: Design Philosophy Behind GE's New Shaft Turbine." Flight 79 (January 13, 1961):63.

No Author Listed. "Take-over by a Turboprop (the Astazou)." Aeronautics 44 (May 1961):22.

No Author Listed. "Turbofans." (Table only). Flight 80 (July 20, 1961):96.

No Author Listed. "Turbojets." Flight 80 (July 20, 1961):96.

No Author Listed. "Turboprops." Flight 80 (July 20, 1961):97.

No Author Listed. "Turboshafts." Flight 80 (July 20, 1961):97.

No Author Listed. "Turmo III Free Turbine." Interavia 16 (July 1961):973.

No Author Listed. "Two Newcomers from Pratt & Whitney: the JT12 and PT6 Gas Turbines." Interavia 16 (July 1961):974.

No Author Listed. "Why turbofans? (Reprinted from Boeing Airliner)." MATS Flyer 8 (September 1961):26.

No Author Listed. "Leading Foreign Gas Turbines; Specifications." Aviation Week 74 (March 13, 1961):198.

No Author Listed. "Spey Features Mechanical Improvements." Aviation Week 74 (June 5, 1961):59.

Nozick, Harvey J. "Skip Turboprop for Pure Jet with Little Sweep-back." Business & Commercial Aviation (May 1961):22.

Nozick, Harvey J. "Turbines Move In." Business & Commercial Aviation (January 1961):26.

Stanfield, R. I. "General Electric's Executive Turbines." Flying 68 (May 1961):36.

Stevens, J. H. "Aero-engines Today." Aeronautics 44 (September 1961):52.

Szydlowski, J. "The Low-power Turboprop; the Progress of the Astazow." Interavia 16 (July 1961):970.

Tomasetti, L. V. "Jet Trends and Business Aircraft." Flight Magazine 50 (August 1961):26.

Williams, J. R. "J57 Engine Fuel Manifold Failure!" Aircraft Accident & Maintenance Review 16 (July 1961):6.

Wilson, Maj George W. "Hail, hail, the Gangstar's Here!" Aerospace Safety 17 (June 1961):16.

1962

Anderton, D. A. "GE Designing Low Cost Turbine Engines." Aviation Week 76 (January 15, 1962):31.

Banks, Air Commodore F. R. "Five Decades of the Aero Engine." Journal of the Royal Aeronautical Society 66 (January 1962):672.

Candelise, Dr. A. "Gas Turbine Igniters." Aircraft Accident & Maintenance Review 17 (December 1962):2.

Dawson, Joseph. "NATO Jet Engine Roundup." NATO Journal 2 (April 1962):26.

Eltis, E. "Development of the Rolls-Royce Spey By-pass Jet." Interavia 18 (May 1963):625.

Gaffey, Troy. "Meet the B-52H Turbofan Engine." Aircraft Accident & Maintenance Review 17 (February 1962):4.

Gooding, L. E. "A Wheel Spiel...Advice on Avoiding Turbine Wheel Failure." Combat Crew 13 (July 1962):4.

Hare, E. A. "Initial Development of the Rolls-Royce Spey By-pass Engine." Interavia 17 (April 1962):432.

Howard, Major Marlin C. "No Sweat (for 9th Field Maintenance Squadron to Hang an Alternator on a J47 Engine)." Aircraft Accident & Maintenance Review 17 (January 1962):12.

Kittle, Bernie W. "The Cartridge/Pneumatic Starter." Aircraft Accident & Maintenance Review 17 (August 1962):6.

Lombard, A. A. "V/STOL Composite Powerplant and the RB162." Interavia 17 (August 1962):969.

McCreadie, Ralph. "Read 'Em Or Weep (Gauges Indicate Engine Malfunction)." Aerospace Safety 18 (May 1962):4.

No Author Listed. "Aero Engines." Flight 82 (August 30, 1962):336.

No Author Listed. "Allison T63 and Aubisque; New Developments in the Field of Small Turbine Engines." Flight 81 (February 15, 1962):251.

No Author Listed. "B-70 Receives Final Engine (YJ93)." Air Force Times 22 (July 28, 1962):20.

No Author Listed. "Bristol Siddeley BS75 Turbofan." Interavia 17 (April 1962):24.

No Author Listed. "Bristol Siddeley Lift/Thrust Engines." Flight 81 (February 1, 1962):156.

No Author Listed. "By-pass Engines Open New Markets to Jet Traffic." Interavia 17 (April 1962):430.

No Author Listed. "Development of the Bristol Siddeley Lift/Thrust Engine." Interavia 17 (May 1962):593.



No Author Listed. "Gas Turbines--Auxiliary (Table Only)." Aerospace Management 5 (March 1962):128.

No Author Listed. "New Buckets for Old Birds (Turbine Bucket Failure in the J33 Engine)." Aerospace Safety 18 (December 1962):8.

No Author Listed. "Portable Hopper Helps Solve Installed Engine Cleaning Problem." TIG Brief 14 (March 30, 1962):12.

No Author Listed. "Project Hardcore (Modifies the J79-3B Engine for the F-104)." Aerospace Safety 18 (October 1962):18.

No Author Listed. "RB162, Preliminary Details of a Revolutionary Lift Unit." Flight 82 (September 6, 1962):394.

No Author Listed. "Spey Sage: Rolls-Royce RB163 By-pass Engine is Now in the Advance Development Stage." Aeronautics 45 (January 1962):31.

No Author Listed. "Turbofans for 1962." (Table Only) Flight 81 (June 28, 1962):1025.

No Author Listed. "Turboprops for 1962 (Tables Only)." Flight 81 (June 28, 1962):1026.

No Author Listed. "Turboshafts for 1962 (Tables Only)." Flight 81 (June 28, 1962):1026.

No Author Listed. "Vipers: Development Life of a Small Turbojet." Flight 82 (December 20, 1962):984.

Rush, D. A. "Electrical Control of Gas Turbines." Flight 81 (June 21, 1962):976.

Soule, G. "How the First U.S. Jet was Born." Popular Science 181 (October 1962):84.

Sweeney, R. L. "Boeing's Turbine Family." Flying 70 (February 1962):34.

Von der Nuell, Dr. Werner T. "The Challenge of Miniaturizing Turbomachinery." Interavia 17 (August 1962):1022.

1963

Banks, Air Commodore F. R. "Prospects for the Turboprop." Interavia 18 (January 1963):47.

Beller, W. "Air-breathing Boosters Gain Favor." Missiles & Rockets 12 (March 18, 1963):22.

Belliere, P. "Propellers for Turboprop Engines." Interavia 18 (January 1963):67.

Butz, J. S. Jr. "The Coming Revolution in Jet Propulsion." Air Force and Space Digest 46 (October 1963):36.

Fairhurst, F. G. "Propellers for the Dart Engine." Interavia 18 (January 1963):69.

Fernberger, John M. "A Versatile Free Turbine Engine (T64)." Interavia 18 (January 1963):57.

Fink, D. E. "JT8D Engine Uses Full-length Fan Duct." Aviation Week 79 (October 14, 1963):52.

Fulton, Kenneth T. "The Rolls-Royce Dart." Interavia 18 (January 1963):60.

Goldman, J. "Jet Propulsion." Motor Biweekly 111 (February 1963):50.

Gunston, W. T. "Aircraft Propulsion, 1953-1973." Flight 83 (May 16, 1963):717.

Harker, R. W.; and Heyworth, A. J. "VSTOL Powerplants." USA Aviation Digest 9 (December 1963):2.

Keck, J. R. "J33 Turbine Buckets." Aerospace Maintenance and Safety 18 (July 1963):6.

Lombard, A. A. "Jet Deflection." Flight 83 (June 27, 1963):1012.

No Author Listed. "By-pass and Fan Engine Progress." Interavia 18 (May 1963):628.

No Author Listed. "Don't Bust the Buckets." Aerospace Maintenance and Safety 18 (June 1963):6.

No Author Listed. "Dual-flow Engine Design: 1963." Interavia 18 (May 1963):612.

No Author Listed. "Evolution of an Idea (The Vectored Thrust Turbofan Engine)." Interavia 18 (February 1963):174.

No Author Listed. "General Electric CJ610 Engine." Interavia 18 (June 1963):857.

No Author Listed. "Lycoming Turbofans: First Details of the T55 Front-fan Conversions." Flight 84 (July 16, 1963):96.

No Author Listed. "Mach 3 Engine: General Electric Unveils the YJ93." Flight 84 (September 26, 1963):543.

No Author Listed. "Nine Tons of Thrust: The TF106." Interavia 18 (May 1963):632.

No Author Listed. "Particulars of Some Turboprops      Turboshafts (Tables Only)." Interavia 18 (January 1963):54.

No Author Listed. "Pratt & Whitney JT8D-1." Flight 83 (May 9, 1963):688.

No Author Listed. "RB162 First of the Lift Jets." Flight 83 (June 13, 1963):922.

No Author Listed. "Regenerative Turboprop: Preliminary Details of the Allison T78." Flight 84 (October 24, 1963):687.

No Author Listed. "Shapes and Sizes; A Technical Miscellany from Paris (Air Show)." Flight 83 (June 20, 1963):965.

No Author Listed. "Subsonic and Supersonic Turbofans for the Future." Interavia 18 (May 1963):614.

- No Author Listed. "Throttle Technique Prevents Stall." (Reprinted from General Electric Jet Service News." Aerospace Safety 19 (October 1963):20.
- No Author Listed. "Turbines for Shaft Power." Interavia 18 (January 1963):49.
- No Author Listed. "Turbofan Development at Pratt & Whitney." Interavia 18 (May 1963):630.
- No Author Listed. "Vapour-core Pump: A New Development for Aircraft Gas-turbine Systems." Flight 83 (March 14, 1963):364.
- No Author Listed. "VTOL Turbofan Test-bed." Flight 83 (February 7, 1963):192.
- No Author Listed. "VTOL Power: Bristol Siddeley's Views On Strike-Aircraft Design." Flight 83 (January 10, 1963):52.
- No Author Listed. "Waspaloy (Bucket Should Reduce J33 Bucket Failures)." Interceptor 5 (May 1963):18.
- No Author Listed. "J93 Viewed as Basis for SST Powerplant." Aviation Week 79 (September 16, 1963):32.
- Ramsden, J. M. "30,000,000 Hours With Rolls-Royce Turbine Engines." Flight 83 (January 17, 1963):77.
- Schmidt, Lt Col David J. "Hot Start." Aerospace Safety 19 (November 1963):5.
- Szydlowski, J. "The Aubisque By-pass Engine for Light Aircraft." Interavia 18 (May 1963):631.
- Wetmore, W. C. "RM-8 Detail Design Pushed by Flygmotor, to Power Sweden's Next Manned Weapons System." Aviation Week 79 (November 18, 1963):48.
- Wilde, G. L. "Applications of the (RB162) Lift Jet." Interavia 18 (February 1963):180.
- 1964
- Balo, H. A. "Overtemperature and Turbine Failure in the Jet Engine." MATS Flyer 11 (January 1964):20.
- Balo, H. A. "Wheel Failures Don't Just Happen (Preventing Bucket and Serration failures)." Combat Crew 15 (December 1964):16.
- Bragg, S. L. "Expensive Noise - In Rockets and Turbojets." Flight 85 Pt. 1 (February 13 1964):248.
- Bragg, S. L. "Expensive Noise - In Rockets and Turbojets." Flight 85 Pt. 2 (February 20, 1964):276.
- Burton, Paul. "The Jet Goes to Sea." United Aircraft Quarterly Bee-Hive 39 (Summer 1964):29.
- Butz, J. S. Jr. "Aviation's Widening Horizons." Air Force and Space Digest 47 (August 1964):29.

Eckert, Dr. I. B. "The Daimler-Benz PTL6 Turbine." Interavia 19 (September 1964):1383.

Gilley, Jack G. "Big Push." Aerospace Safety 20 (January 1964):4.

Giusti, Frank. "Canada's Diminutive New Turbine (PT6)." United Aircraft Quarterly Bee-Hive 39 (Winter 1964):33.

Guisti, Frank. "Canada's Diminutive New Turbine (PT6)." United Aircraft Quarterly Bee-Hive 39 (Winter 1964):33.

Lombard, A. A. "Engines for Future Subsonic Civil Aircraft." Interavia 19 (December 1964):1847.

Martin, John. "Jet Heart of Sweden's Air Force: Flygmotor (Plant at Trollhaven)." United Aircraft Quarterly Bee-Hive 39 (Spring 1964):22.

No Author Listed. "Engines You'll Still See in 1964." Popular Science 164 (June 1954):114.

No Author Listed. "Allison T78, the First Regenerative Propeller Turbine." Interavia 19 (November 1964):1690.

No Author Listed. "Anglo-German Engine Collaboration." Flying Review 19 (June 1964):30.

No Author Listed. "Bristol Siddeley Developments in the V/STOL Powerplant Field." Flight 86 (August 27, 1964):328.

No Author Listed. "CF700, General Electric's Baby Aft-fan Engine." Flight International 86 (December 17, 1964):1050.

No Author Listed. "CLT (Centre Line Thrust) a la Francaise..." Flying Review 19 (February 1964):58.

No Author Listed. "Developing a Fighter (VJ-101C) with Swivelling Engines." Interavia 19 (January 1964):53.

No Author Listed. "Find the Cracks, or Lose Turbine Buckets." Aerospace Maintenance and Safety 19 (October 1964):28.

No Author Listed. "King of the Beechcraft." Flight 86 (July 2, 1964):14.

No Author Listed. "Longer Jet Engine Service Aim of Eighth Air Force Program." Air Force Times 25 (November 25, 1964):34.

No Author Listed. "Military Turbofans." Flight 85 (March 5, 1964):345.

No Author Listed. "Short-haul Contenders." Flight 85 (April 16, 1964):600.

No Author Listed. "Short-haul Engine Economics." Flight 86 (October 27, 1964):722.

No Author Listed. "SOAP (Spectrometric Oil Analysis Program) Proves Effective Gage of Engine Wear." Air Force Times 25 (November 25, 1964):20.

No Author Listed. "Still the Prestige Product - British Aero Engines." Flying Review 20 (October 1964):25.

No Author Listed. "T64-BS: Bristol Siddeley to Make 3,000 h.p. GE Engine." Flight 85 (June 18, 1964):1019.

No Author Listed. "Ten Year Old J79 Engine Still Far From Outmoded." Air Force Times 24 (July 1, 1964):26.

No Author Listed. "Two Propeller Turbine Engines (United Aircraft of Canada's T74 and AiResearch's T76) in Competition for COIN." Interavia 19 (October 1964):1503.

No Author Listed. "Turborocket; Rolls-Royce Discusses a Mach 4.5 Air-breathing Powerplant." Flight 86 (October 29, 1964):752.

No Author Listed. "Khrushchev Admits Turboprop Problems." Aviation Week 80 (January 13, 1964):82.

Stephenson, J. M. "Tip Turbojets for Helicopters." Flight 85 (June 25, 1964):1071.

Stevens, J. H. "Allison T78: Regenerative Turboprop for Long-endurance Aircraft." Flight 86 (November 12, 1964):834.

Taylor, John W. R. "Hawker Siddeley 681." Air Pictorial 26 (April 1964):108.

Yaffee, M. L. "Allison Plans Regenerative Engine Family." Aviation Week 80 (March 2, 1964):60.

1965

Barrett, James A. "Development in Vectored Thrust Turbofan Engines." Interavia 20 (November 1965):1748.

Borden, Norman E. "Malfunction Analysis." Aerospace Safety 21 (July 1965):16.

Butz, J. S. Jr. "New General Electric Turbojets." Air Force and Space Digest 1 (August 1965):39.

Coleman, H. J. "Military Spey Version Reflects New Policy at Rolls-Royce." Aviation Week 83 (October 4, 1965):64.

Coleman, H. J. "Plenum Chamber Burning Feature Studied for Hawker P.1127 Fighter." Aviation Week 83 (September 20, 1965):90.

Landamore, G. M. "The Case for Medium By-pass." Flight International 88 (December 16, 1965):1050.

Macpherson, Angus. "GD Fort Worth's F-111 at Home." Flight International 87 (April 29, 1965):663.

Moller, Evert. "Flygmotor Tests the Viggen's RM8 Engine." Interavia 20 (November 1965):1742.

No Author Listed. "Aero Engines 1965: Data for Representative Engines (Tables Only)." Flight International 87 (January 7, 1965):33.

No Author Listed. "Aero Engines, A Survey." Flight International 87 (January 7, 1965):19.

No Author Listed. "Big Starlifter Engines Undergo Maintenance." Air Force Times 25 (July 14, 1965):24.

No Author Listed. "Civil Olympus (Engine) Progress." Flight International 87 (June 3, 1965):867.

No Author Listed. "Fighter Power--The Fans Take Over." Flying Review International 21 (November 1965):167.

No Author Listed. "Flygmotor RM8 Engine for the (SAAB-37) Viggen." Interavia 20 (April 1965):524.

No Author Listed. "General Electric Improves the J79." Interavia 20 (June 1965):810.

No Author Listed. "Plan To Improve Engines On T-38 Begun At Reese (Project Sharkstake)." Air Force Times 26 (September 15, 1965):7.

No Author Listed. "Plenum-chamber Burning Described (For P.1127 and P.1154)." Flight International 88 (October 21, 1965):679.

No Author Listed. "Ryan Lift-fan Family." Flying Review International 20 (September 1965):5.

No Author Listed. "Spey Phantom Facts." Flight International 88 (August 12, 1965):254.

No Author Listed. "Two Turbojets in One Thrust Class--The Rolls-Royce/Turbomeca RB172/T260 and the Bristol-Siddeley/SNECMA M45." Interavia 20 (September 1965):1397.

No Author Listed. "When the Bird Hits the (TF33 Turbofan Engine)." MATS Flyer 12 (September 1965):18.

No Author Listed. "World's Most Powerful Helicopter Rotor (General Electric CJ-805-23B Bypass Turbojet)." Interavia 20 (January 1965):110.

Szydlowski, J. "Design and Development of Small Aircraft Gas Turbines in France." Journal of the Royal Aeronautical Society 69 (January 1965):459.

Wotton, J. "The Case for High By-pass." Flight International 88 (December 9, 1965):1004.

Yaffee, M. L. "GE Aims J79J1 at Future F-4 Series." Aviation Week 82 (April 19, 1965):52.

Yaffee, M. L. "High-bypass Engines May be Next Step." Aviation Week 83 (October 25, 1965):140.

1966

Barnhart, R. "Rigimesh Now Heavily used in Cooling; Application in Jet and Rocket Engines." Technical Weekly 19 (December 19, 1966):36.

Burton, Paul. "Generating Jets and the Blackout." United Aircraft Quarterly Bee-Hive 41 (Winter 1966):13.

- Cole, R. A. "Report From Hanover." Air Pictorial 28 (July 1966):244.
- Coleman, H. J. "Rolls Explores Third-generation Lift Jets." Aviation Week 84 (April 18, 1966):54.
- Cox, John A. "Sprayed For Strength (With Plasma Coating)." United Aircraft Quarterly Bee-Hive 41 (Fall 1966):18.
- Davies, D. O. "Development of the RB162." Flight International 89 (April 14, 1966):586.
- Fulton, Kenneth T. "European Engines For Europe?" Flying Review International 22 (September 1966):47.
- Fulton, Kenneth T. "Russian Engines Reviewed." Flying Review International 21 (July 1966):686.
- Fulton, Kenneth T. "The High By-pass Ratio Turbofan." Flying Review International 21 (August 1966):747.
- Mecklin, J. "G.E.'s Hard-driving Jockey in the Jet-engine Race." Fortune 74 (July 1, 1966):116.
- Nixon, Frank. "Aircraft Engine Developments during the Past Half Century." Journal of the Royal Aeronautical Society 70 (Centenary Issue 1966):165.
- No Author Listed. "Anglicising the Phantom." Flight International 90 (July 14, 1966):58.
- No Author Listed. "Continental J69-T-6 Gives Firebee II Added 'Sting'." Ryan Reporter 27 (April-May 1966):12.
- No Author Listed. "Kelly To Repair B-58 Engines and Share Workload On F-4C." Air Force Times 27 (November 23, 1966):12.
- No Author Listed. "Mid-1968 Engine Deliveries Slated for Operational F-111B." Technical Weekly 19 (September 5, 1966):15.
- No Author Listed. "New Plasma Spray Used To Fix Jet Engine Parts." Air Force Times 26 (July 13, 1966):12.
- No Author Listed. "Pratt & Whitney JT9D-1 Turbofan." Interavia 22 (July 1966):1033.
- No Author Listed. "Progress in Turbofan Development--Engine Technology at Pratt & Whitney." Interavia 21 (December 1966):1896.
- No Author Listed. "Propulsion (Exhibits At the 1966 SBAC Show)." Flight International 90 (September 15, 1966):476.
- No Author Listed. "RB178--First Details of Rolls-Royce's Biggest Engine Yet." Flight International 89 (May 12, 1966):796.
- No Author Listed. "Rolls-Royce Offers the 3-Shaft RB178." Interavia 21 (July 1966):1031.

No Author Listed. "Rolls-Royce Tomorrow." Flight International 90 (July 21, 1966):90.

No Author Listed. "Twenty-fifth Anniversary (of the Gloster E28/39 Historic First Flight on May 15, 1941) and its Implications." Flight International 89 (May 12, 1966):797.

No Author Listed. "GE Offering SST Engine Growth; New Combustor Unveiled by P&W." Aviation Week 84 (May 2, 1966):41.

No Author Listed. "Soviets Groom Tu-154 as Workhorse." Aviation Week 85 (October 10, 1966):56.

Ulsamer, Edgar E. "America's SST: Matching Haste with Reason." Air Force and Space Digest 2 (July 1966):6.

Ulsamer, Edgar E. "America's SST: Matching Haste with Reason." Air Force and Space Digest 49 (July 1966):74.

Yaffee, M. L. "JT9D Engine for 747 Emphasizes Thrust for Cruise." Aviation Week 84 (April 18, 1966):42.

Yaffee, M. L. "Marquardt Developing Composite Engines." Aviation Week 85 (December 12, 1966):93.

Yaffee, M. L. "NASA Lewis Revives Air-breather Effort Emphasis on Supersonic Transport Propulsion." Aviation Week 84 (June 13, 1966):71.

Yaffee, M. L. "Plating Reclaims Worn Jet Engine Parts." Aviation Week 85 (October 17, 1966):63.

1967

Beller, W. "NASA Seeks Quiet Aircraft Engine Design." Technical Weekly 20 (June 19, 1967):20.

Clingan, William E. "The J75 Engine Ailments." Aerospace Maintenance and Safety 22 (July 1967):10.

Cowles, Edward R. "School of Jet Know-How (Pratt & Whitney Aircraft Service School in East Hartford, Connecticut)." United Aircraft Quarterly Bee-Hive 42 (Spring 1967):26.

Fulton, Kenneth T. "Propulsion--Turbojets Versus Turboprops." Flying Review International 22 (March 1967):428.

Fulton, Kenneth T. "Speys International." Flight International 92 (November 16, 1967):805.

Geisenheyner, S. "Showcase For World Aerospace: Highlights of the Paris Air Show." Aerospace International 3 (July-August 1967):40.

Geisenheyner, S. "Showcase For World Aerospace: Highlights of the Paris Air Show." Air Force and Space Digest 50 (August 1967):38.

Getler, M. "Longer FB-111 with AMSA Engines Studied; Advanced Manned Strategic Aircraft." Technical Weekly 29 (February 20, 1967):14.



- Gregory, W. H. "Soviets Add Two New Versions to Growing An-24 Family; Twin-turboprop Transport." Aviation Week 87 (July 10, 1967):54.
- Gregory, W. H. "Soviets Break Tradition in Yak-40 Design; Three-engine, Short-haul Transport Using Turbofan Engines." Aviation Week 86 (June 19, 1967):30.
- Hewson, C. T.; and Lombard, A. A. "From Whittle (Engine of First British Jet Aircraft) to 1997." Flight International 91 (April 27, 1967):659.
- Judge, J. F. "Maintainability Gains as Design Criteria." Aerospace Technology 21 (July 17, 1967):55.
- Langley, N. L. "The J57 Pigtail Problems." Aerospace 22 (July 1967):8.
- No Author Listed. "Aero Engines 1967; Random Thoughts On Future Propulsion." Flight 72 (July 26, 1957):107.
- No Author Listed. "A Viable Europa (Twin-vs-Trijet Engine Airbus)." Flight International 92 (August 24, 1967):289.
- No Author Listed. "Fairchild Hiller F-228." Flight International 91 (February 9, 1967):194.
- No Author Listed. "Jet Engine Shop Talk." Aerospace Maintenance and Safety 22 (December 1967):10.
- No Author Listed. "More About Pratt & Whitney's New Turbofan (JT15D-5)." Flight International 92 (October 26, 1967):679.
- No Author Listed. "Pegasus and the Flying Pig." Flight International 92 (November 9, 1967):777.
- No Author Listed. "Power for the Jumbo Jets--The Pratt & Whitney JT9D in Development." Interavia 22 (June 1967):882.
- No Author Listed. "Rateau vs Rolls-Royce: The Judgment (On A Patent Hearing)." Flight International 91 (May 4, 1967):684.
- No Author Listed. "Rolls-Royce RB203-01 Trent Turbofan." Interavia 22 (March 1967):410.
- No Author Listed. "Rolls-Royce RB207: Powerplant for the European Airbus." Interavia 22 (December 1967):1874.
- No Author Listed. "Rolls-Royce RB211 Turbofan." Flight International 92 (November 9, 1967):754.
- No Author Listed. "Tinker Tests Engines By Automatic System." Air Force Times 27 (March 15, 1967):38.
- Rieck, Joan. "Now or Never: The German Air Bus (Working Group) Symposium (February 2, 1967)." Flight International 91 (February 16, 1967):229.
- Seippel, Claude. "Henry Thomas and the Birth of the Gas Turbine." Brown Boveri Review 54 (March 1967):132.

Slayman, Robert A. "Toughened To Take The Heat (Titanium Used To Make Jet Engine Turbine Blades)." United Aircraft Quarterly Bee-Hive 42 (Winter 1967):26.

Stone, I. "P&W Keys Airbus Engine Work to JT9D." Aviation Week 87 (July 10, 1967):45.

Twomey, R. A. "A Viable Europa (Twin-vs-Trijet Engine AirBus)." Flight International 92 (August 24, 1967):289.

Villers, Ralph. "The Remarkable Jet Engine." United Aircraft Quarterly Bee-Hive 42 (Fall 1967):23.

Yaffee, M. L. "GE Sets Airbus Engine Design, Cost." Aviation Week 87 (September 25, 1967):28.

Yaffee, M. L. "Lycoming Expands Turbine Engine Family." Aviation Week 87 (December 18, 1967):59.

Yaffee, M. L. "NASA Engine Work Keyed to Components." Aviation Week 87 (September 4, 1967):64.

Yaffee, M. L. "P&W Bases Airbus Powerplant on JT9D." Aviation Week 87 (October 9, 1967):43.

1968

Banks, Air Commodore F. R. "Fifty Years of Engineering Learning." Journal of the Royal Aeronautical Society 72 (January 1968):209.

Butz, J. S. Jr. "Metallurgy: Key to the Jet Engine Revolution." Air Force and Space Digest 51 (February 1968):56.

Butz, J. S. Jr. "Metallurgy: Key to the Jet Engine Revolution." Aerospace International 4 (March-April 1968):6.

Butz, J. S. Jr. "The Jet Engine Revolution." Aerospace International 4 Pt. 1 (March-April 1968):6.

Butz, J. S. Jr. "The Jet Engine Revolution." Aerospace International 4 Pt. 2 (May-June 1968):51.

Butz, J. S. Jr. "Why Jet Engines Are Booming." Air Force and Space Digest 51 (January 1968):83.

Caidin, Martin. "Power, Power, Who's Got the Power?" Data 13 (November 1968):6.

Coleman, H. J. "Inflight Damage Causes Rolls to Modify Blades in Conway." Aviation Week 89 (October 21, 1968):43.

Fulton, Kenneth T. "Airbus Power in Triplicate." Flying Review International 23 (January 1968):22.

Fulton, Kenneth T. "Jets for the Jumbos." Flying Review International 23 (August 1968):442.

Fulton, Kenneth T. "The Engine for the Concorde: An Anglo-French Achievement." Flying Review International 23 (April 1968):183.

Harrison, Neil. "A-300 Decision Time." Flight International 94 (July 18, 1968):87.

Harrison, Neil. "Boeing 747." Flight International 94 (December 12, 1968):978.

Nicholson, R. "Marketing the RB211." Flight International 94 (July 4, 1968):24.

No Author Listed. "Aero Engines, A Special Review (of the Production and Development of the World's Aero Engine Manufacturers)." Flight International 93 (January 4, 1968):9.

No Author Listed. "Air Force Snafu; Cause of Crashes." Nation 187 (December 10, 1968):465.

No Author Listed. "Allison 250--A Turbine Engine for General Aviation." Interavia 23 (December 1968):1530.

No Author Listed. "Background to a Big Engine Programme--Progress with the Rolls-Royce RB211." Interavia 23 (December 1968):549.

No Author Listed. "Continental (Motors Corporation) Power for Light Aircraft." Interavia 23 (December 1968):1523.

No Author Listed. "Engines (Displayed at the 1968 SBAC Show)." Flight International 94 (September 26, 1968):481.

No Author Listed. "Farnborough 1968 (26th SBAC Show)." Flight International 94 (September 19, 1968):443.

No Author Listed. "Farnborough in Retrospect." Flying Review International 24 (November 1968):58.

No Author Listed. "Flygmotor's Mighty RM8." Flight International 94 (July 11, 1968):61.

No Author Listed. "Garrett AiResearch ATF3." Interavia 23 (December 1968):1532.

No Author Listed. "Garrett TPE 331 Turboprop Engine." Interavia 23 (June 1968):774.

No Author Listed. "Jaguar." Flying Review International 23 (May 1968):277.

No Author Listed. "Pentagon Pokes At Costs Dispute with Pratt & Whitney Over Engines for F-111." Business Week (June 8, 1968):44.

No Author Listed. "Role of the Engine Manufacturers." Interavia 23 (June 1968):716.

No Author Listed. "Rolls-Royce (RB211) Wins." Flight International 93 (April 4, 1968):472.

No Author Listed. "Russian Engines (AI-20M, AI-24T, and AI-25) for Export." Flight International 94 (December 5, 1968):954.

No Author Listed. "TF39--Quantum Jump in Engine Technology." Air Force and Space Digest 51 (April 1968):84.

No Author Listed. "Turbofans--What and Why." Approach 13 (March 1968):36.

No Author Listed. "U.S. Engine Technology--Where We Stand--What the Future Holds: Interview with Gerhard Neumann." Air Force and Space Digest 51 (November 1968):58.

No Author Listed. "Way Ahead for the CF6 (High-Bypass-Ratio Turbofan)." Flight International 94 (October 31, 1968):714.

No Author Listed. "Leading International Gas Turbines." Aviation Week 88 (March 18, 1968):222.

No Author Listed. "Leading International Gas Turbines." Aviation Week 89 (October 21, 1968):3.

No Author Listed. "Northwest Wants JT9D Engine in Airbus." Aviation Week 89 (October 7, 1968):34.

No Author Listed. "U.S. Gas Turbine Engines." Aviation Week 88 (March 18, 1968):212.

Ramsden, J. M. "Presenting the (Lockheed) 1011." Flight International 93 (June 27, 1968):945.

Raper, RAdm R. G. "Sophistication or Simplicity: Design and Propulsion Problems in the Next Decade." Royal United Service Institution Journal 113 (August 1968):221.

Tomlinson, Major Frank J. "The Super (A-) 7." Aerospace Safety 24 (June 1968):2.

Ulsamer, Edgar E. "Lockheed C-5 Galaxy: How the World's Largest Aircraft Revolutionizes Strategy and Technology." Air Force and Space Digest 51 (April 1968):64.

Ulsamer, Edgar E. "The Airbus Race: Off and Running." Aerospace International 4 (March-April 1968):15.

Wetmore, W. C. "Rolls is Aiming Jet Lift for VSTOLs at Transport Field." Aviation Week 88 (June 24, 1968):232.

Yaffee, M. L. "New Inlet Control System May Aid SST." Aviation Week 89 (September 16, 1968):141.

Yaffee, M. L. "Propulsion Critical to Future of VSTOL." Aviation Week 88 (June 24, 1968):131.

Yaffee, M. L. "Quiet Engine Search Focuses on Nacelles." Aviation Week 89 (December 2, 1968):61.

1969

Brown, D. A. "Garrett Expanding Turbine Family." Aviation Week 91 (November 3, 1969):85.

Fulton, Kenneth T. "The Power Game (Among Pratt & Whitney, Rolls-Royce and General Electric)." Flying Review International 23 (November 1969):34.

Geisenheyner, S. "Jaguar: A Cooperative Project Pays Off." Air Force and Space Digest 52 (February 1969):44.

Geisenheyner, S. "Jaguar: A Cooperative Project Pays Off." Aerospace International 5 (May-June 1969):9.

Golden, Ronald C. "Report from Japan." Aerospace International 5 (September-October 1969):26.

Horton, J. "Amazing New Lightweight Turbine." Mechanics Illustrated 65 (February 1969):66.

No Author Listed. "747's Troubles." Flight International 96 (October 16, 1969):589.

No Author Listed. "Aero Engines, A Special Feature." Flight International 95 (January 2, 1969):17.

No Author Listed. "Be Kind to Your Engines." Combat Crew 20 (January 1969):8.

No Author Listed. "Briefing the Technicians--from the (11th) Anglo-American (Aeronautical) Conference, London, (September 1969)." Flight International 96 (September 16, 1969):453.

No Author Listed. "General Electric CF6-50A." Interavia 24 (October 1969):1710.

No Author Listed. "High-Thrust RB211." Flight International 95 (May 1, 1969):700.

No Author Listed. "Mounting Confidence (In JT9D Engine Problems)." Flight International 96 (November 13, 1969):748.

No Author Listed. "Navy Beefs Up F-14." Armed Forces Journal 106 (January 11, 1969):10.

No Author Listed. "British-Powered MRCA." Flight International 96 (September 11, 1969):402.

No Author Listed. "Pratt & Whitney's JT9D Big Civil Jet Engine." Interavia 24 (May 1969):625.

No Author Listed. "RB211 Progress Report." Air Force and Space Digest 52 (June 1969):22.

No Author Listed. "Towards Quieter Engines." Flight International 96 (August 6, 1969):194.

No Author Listed. "Two Decades of Jet Propulsion." Interavia 14 (November 1969):1360.

No Author Listed. "Viggen Thrust Reverser System." Interavia 24 (March 1969):276.

No Author Listed. "British See Joint Engine Projects as Key to Future Sales." Aviation Week 90 (June 2, 1969):256.

No Author Listed. "GE12 to Demonstrate Advanced Design, Component Technology." Aviation Week 91 (October 27, 1969):26.

No Author Listed. "Germans Pushing Engine Development." Aviation Week 90 (June 2, 1969):262.

No Author Listed. "Rolls-Royce Expands Blade Cooling Work." Aviation Week 90 (March 31, 1969):82.

No Author Listed. "U.S. Gas Turbine Engines." Aviation Week 90 (March 10, 1969):175.

Plattner, C. M. "Inlets Posed YF-12 Design Hurdle." Aviation Week 91 (August 11, 1969):65.

- Ramsden, J. M. "Lockheed, Douglas, Boeing and P&W in a Week." Flight International 96 (November 13, 1969):742.
- Yaffee, M. L. "GE Plans Growth Version of CF6." Aviation Week 91 (October 27, 1969):52.
- Yaffee, M. L. "Inlet Taps Point to Tu-154 Problem." Aviation Week 91 (July 21, 1969):57.
- 1970
- Fink, D. E. "Turbomeca Designs New Turbofans." Aviation Week 92 (May 4, 1970):72.
- Fulton, Kenneth T. "World Aero-Engine Capability." Flying Review International 26 (July 1970):28.
- Garry, Fred. "Technology Advancement Opportunity in Next Generation Jet Engines." Interavia 25 (May 1970):565.
- Geisenheyner, S. "Anglo-French Engine for German Aircraft." Air Force and Space Digest 53 (August 1970):19.
- Hood, Edward E. Jr. "Commercial Aircraft Engines by General Electric." Interavia 25 (October 1970):1253.
- No Author Listed. "Achievements in Engine Construction (Shown at Hanover Air Show)." Interavia 25 (June 1970):708.
- No Author Listed. "Composites in Power Plants." Interavia 25 (May 1970):556.
- No Author Listed. "Concorde Engines Support Organizations." Interavia 25 (May 1970):568.
- No Author Listed. "Eliminating Foreign Object Damage." TIG Brief 22 (October 23, 1970):13.
- No Author Listed. "Engines and Economics." Interavia 25 (May 1970):549.
- No Author Listed. "Jet Engines for Civil Air Transport." Interavia 25 (May 1970):550.
- No Author Listed. "Jet Engines for Civil Applications (Table Only)." Interavia 25 (May 1970):557.
- No Author Listed. "Flight-testing the RB211." Flight International 97 (March 19, 1970):417.
- No Author Listed. "Report on the M53 Engine." Interavia 25 (July 1970):870.
- No Author Listed. "Rolls Develops Engine Trouble." Business Week (June 6, 1970):32.
- No Author Listed. "Tiara--A New Engine Range from Teledyne Continental." Interavia 25 (May 1970):622.
- No Author Listed. "Which Fuel?" Aerospace Safety 26 (April 1970):5.
- No Author Listed. "JT9D Modifications." Aviation Week 28 (October 5, 1970):32.

No Author Listed. "Longer Inspection Times Sought After JT9D Hot Section Checks." Aviation Week 93 (July 6, 1970):28.

No Author Listed. "Soviet Engine Detailed." Aviation Week 92 (June 15, 1970):44.

Poehlmann, Harold. "A New Breed of Cat (Flex Bellows)." Aerospace Safety 26 (August 1970):14.

Smelsey, S. O. "Diagnostic Patterns of Injury and Death in USAF Aviation Accidents." Aerospace Medicine 41 (July 1970):790.

Yaffee, M. L. "GE Increasing Thrust of GE4J5 Engine." Aviation Week 92 (January 5, 1970):71.

Yaffee, M. L. "GE1 Engine Spawns Numerous Derivatives." Aviation Week 93 (August 24, 1970):52.

Yaffee, M. L. "Small Aircraft Turbofans Studied." Aviation Week 92 (February 9, 1970):43.

Yaffee, M. L. "Small Gas Turbines Developed." Aviation Week 93 (November 2, 1970):40.

Yaffee, M. L. "Turbine Program Sparks New Technology." Aviation Week 93 (November 30, 1970):53.

Yaffee, M. L. "U.S. Efforts Pace Engine Advance." Aviation Week 92 (June 22, 1970):75.

1971

Elson, B. M. "Optical System Analyzes Engines." Aviation Week 94 (March 1, 1971):48.

Geddes, J. Phillip. "The General Electric F101 Augmented Turbofan." Interavia 26 (October 1971):1187.

Geisenheyner, S. "Rolls-Royce: Troubled But Tenacious." Aerospace International 7 (January-February 1971):38.

Kramer, James J. "The NASA Quiet Engine Programme: Action Against Aircraft Noise." Interavia 26 (December 1971):1373.

No Author Listed. "Development of Two New Turbojets: General Electric TF34 and Rolls-Royce/SNECMA M45H." Interavia 26 (July 1971):822.

No Author Listed. "Engines: Increased Power and Reduced Dimensions (Exhibits at Paris Air Show, 1971)." Interavia 26 (July 1971):796.

No Author Listed. "GE's Dream Engine Gets a French Accent; Joint Development with SNECMA." Business Week (December 18, 1971):36.

No Author Listed. "Historical Highlights of the Viper." Interavia 26 (January 1971):63.

No Author Listed. "Pegasus Jets for Marine Harriers Assured Despite Rolls-Royce Troubles." Armed Forces Journal 108 (February 17, 1971):16.

No Author Listed. "Progress of the L-1011." Aerospace International 7 (January-February 1971):37.

No Author Listed. "Propulsion Branch Management." TIG Brief 23 (December 3, 1971):13.

No Author Listed. "Reverse Thrust." Aerospace Safety 27 (May 1971):18.

No Author Listed. "Proper Siting of Power Check Pads and Jet Engine Test Stands with Sound Suppressors." TIG Brief 23 (February 26, 1971):13.

No Author Listed. "Selling Jet Engines--Who Says They're Better? (Interview with General Electric's Gerhard Neumann)." Government Executive 3 (January 1971):14.

No Author Listed. "Studies of Concorde's Characteristics: Action Against Aircraft Noise." Interavia 26 (December 1971):1378.

No Author Listed. "Advanced M45H Versions Aimed at STOL Aircraft." Aviation Week 94 (May 31, 1971):158.

No Author Listed. "French Goal is Broader Engine Capability." Aviation Week 94 (May 31, 1971):162.

No Author Listed. "Leading International Gas Turbines." Aviation Week 94 (March 8, 1971):78.

No Author Listed. "Rolls, Pratt & Whitney Agree on Joint Pegasus Development." Aviation Week 95 (November 1, 1971):24.

No Author Listed. "U.S. Gas Turbine Engines." Aviation Week 94 (March 8, 1971):80.

Spincourt, Jacques. "French Research in Jet Engine Silencing: Action Against Aircraft Noise." Interavia 26 (December 1971):1376.

Yaffee, M. L. "Hybrid Fighter Engine Designed; Continuous Bleed Turbojet." Aviation Week 95 (September 6, 1971):40.

Yaffee, M. L. "Upated Versions of CF6 Developed; with Table." Aviation Week 95 (August 2, 1971):36.

Yaffee, M. L. "USAF Propulsion Interests Detailed." Aviation Week 94 (March 1, 1971):54.

1972

Barugh, J. K. "A Method of Early Failure Detection for Gas Turbines." Interavia 27 (December 1972):1367.

Carlisle, Oliver C. "Engine Ratings and Operational Limits." Combat Crew 23 (March 1972):8.

Davis, D. G. M. "Variable Pitch Fans." Interavia 27 (March 1972):241.

Geddes, J. Phillip. "Building Aerospace Turbines in Phoenix." Interavia 27 (November 1972):1218.



Geddes, J. Phillip. "New Power Proposal for Lockheed JetStar." Interavia 27 (October 1972):1094.

Gregory, W. H. "JT9D Removals Still exceed Forecasts." Aviation Week 97 (September 25, 1972):27.

James, Derek N. "Dowty-Rotol--Quietly Ready for STOL." Air Pictorial 34 (December 1972):473.

Lahey, Captain John W. "Turbine Trainers." USA Aviation Digest 18 (September 1972):5.

Levy, Roger. "Westland Wyvern (First Operational Military Turboprop Aircraft)." Air Pictorial 34 (December 1972):462.

No Author Listed. "Gas Turbines Leave the Air." Interavia 27 (December 1972):1373.

No Author Listed. "Olympus 593 Mk 602 Engine." Interavia 27 (August 1972):835.

No Author Listed. "Pratt & Whitney Working on JT9D (Engine) Growth." Interavia 27 (July 1972):767.

No Author Listed. "RB211 Affair--Continued." Interavia 27 (March 1972):216.

No Author Listed. "Resurrection of Rolls-Royce." Interavia 27 (September 1972):946.

No Author Listed. "Scramble to Build the Next Jet Engine." Business Week (August 19, 1972):71.

No Author Listed. "Soviet Civil Gas Turbine Engines." Interavia 27 (February 1972):158.

No Author Listed. "Thrust Required Curves." Aerospace Safety 28 (July 1972):8.

No Author Listed. "Big JT9D Thrust Rise Planned." Aviation Week 96 (April 17, 1972):26.

No Author Listed. "Consortiums Key to Future Engine Work; West Germany." Aviation Week 96 (April 24, 1972):53.

No Author Listed. "Engine Incidents on Test DC-10s Cause Precautionary Landings." Aviation Week 97 (August 28, 1972):25.

No Author Listed. "GE Test New Technology engine for B-1." Aviation Week 96 (June 26, 1972):61.

No Author Listed. "Greater Collaboration is Urged on Costly Engine Development." Aviation Week 97 (September 11, 1972):23.

No Author Listed. "Joint Management Established for F100." Aviation Week 96 (June 26, 1972):83.

No Author Listed. "Leading International Gas Turbines; Tables." Aviation Week 96 (March 13, 1972):112.

No Author Listed. "U.S. Gas Turbine Engines; Tables." Aviation Week 96 (March 13, 1972):114.

Woolsey, J. I. "Shortage of Turbine Blade Spares Creates 747 Operation Problems." Aviation Week 96 (January 24, 1972):25.

- Yaffee, M. L. "20,000-lb. Thrust Engines Studied." Aviation Week 97 (July 8, 1972):35.
- Yaffee, M. L. "F100 Engine Draws on Past Technology." Aviation Week 96 (June 26, 1972):88.
- Yaffee, M. L. "JT9D Engine Family Still Growing." Aviation Week 96 (May 15, 1972):54.
- Yaffee, M. L. "Low-cost Turbojet in Static Test." Aviation Week 96 (April 3, 1972):40.
- Yaffee, M. L. "Lycoming Enters Turbofan Arena." Aviation Week 97 (August 21, 1972):44.
- 1973
- Barbin, Captain A. R. "The Mystery of Tail Rotor Droop." MAC Flyer 20 (November 1973):13.
- Berta, Gene; and Carter, Clarence J. "Turbine Engine Know-why." USA Aviation Digest 19 (October 1973):32.
- Chopping, Douglas. "Falcon 10 Testing Resumes in May." Interavia 28 (June 1973):311.
- Coleman, H. J. "RB211 Titanium Blade Material Studied." Aviation Week 98 (March 5, 1973):85.
- Davis, D. G. M. "Engineering Aspects of Variable Pitch Fan." Interavia 28 (August 1973):885.
- Filimonov, Colonel V. "Turbojet Afterburner." Soviet Military Review 4 (April 1973):24.
- Nibloe, Max. "RB211--The Birth Pains of a Big Engine." Interavia 28 (August 1973):856.
- No Author Listed. "AEDC (Arnold Engineering Development Center) Emission Checks Affect Future Airlines." Air Force Times 33 (February 7, 1973):22.
- No Author Listed. "General Electric TF34--Custom-built for ASW." Interavia 28 (June 1973):657.
- No Author Listed. "Hamilton Standard and its Q-fan Concept." Interavia 28 (June 1973):641.
- No Author Listed. "Japan Attempts a Ten-Ton Engine." Interavia 28 (July 1973):784.
- No Author Listed. "Lycoming Fan Range." Interavia 28 (February 1973):122.
- No Author Listed. "Adour--Thrust for Jaguar: First Engine Developed and Series Produced by International Collaboration." Interavia 28 (September 1973):966.
- No Author Listed. "Rolls-Royce/SNECMA M45H Type Approval Coming Soon." Interavia 28 (July 1973):719.
- No Author Listed. "Six Months of RB211 Service." Interavia 28 (February 1973):123.
- No Author Listed. "Ten-tonne Engine"--A New Fashion." Interavia (September 1973):987.

No Author Listed. "United Aircraft of Canada: Small Jet Engines A Specialty." Armed Forces Journal International 110 (April 1973):59.

No Author Listed. "F100 Development to Continue." Aviation Week 99 (October 15, 1973):25.

No Author Listed. "Fund Cut Slows Advanced Engine Work: Supersonic Transports." Aviation Week 99 (September 17, 1973):73.

No Author Listed. "GE will Supply France with F101 Engine Core Technology." Aviation Week 98 (June 11, 1973):25.

No Author Listed. "Leading International Gas Turbines; Tables." Aviation Week 98 (March 19, 1973):49.

No Author Listed. "Team to Study F100, F401 Engine Failures." Aviation Week 99 (October 1, 1973):22.

No Author Listed. "U.S. Gas Turbine Engines: Tables." Aviation Week 98 (March 19, 1973):141.

Robinson, C. A. Jr. "NASA Presses Lift Fan Studies: V/STOL Applications." Aviation Week 99 (July 16, 1973):61.

Ulsamer, Edgar E. "Soviet Engine Technology." Air Force Magazine 56 (September 1973):129.

Winston, D. C. "Soviets Upgrading Yak-40 Engine." Aviation Week 99 (August 20, 1973):54.

Yaffee, M. L. "Earlier Programs Spawned TF34: Turbofan Engine." Aviation Week 98 (February 5, 1973):56.

Yaffee, M. L. "Jet Engine Market Rise Foreseen." Aviation Week 98 (May 28, 1973):245.

Yaffee, M. L. "Navy Joins Air Force Lab Turbine Test." Aviation Week 99 (August 13, 1973):40.

1974

Collins, R. L. "When the Engine Stops." Flying 94 (May 1974):48.

Geddes, J. Phillip. "After Re-organization, Detroit Diesel Allison Makes Good Progress." Interavia 29 (June 1974):562.

Jacobsen, M. K. "The Jet-pod B-36--a New Lease on Life." American Aviation Historical Society Journal 19 (Spring 1974):66.

Jacobsen, M. K. "The Jet-pod B-36--a New Lease on Life." American Aviation Historical Society Journal 19 (Winter 1974):297.

No Author Listed. "Future of the Light Turbine Helicopter." Interavia 29 (April 1974):338.

No Author Listed. "Improper Certification of Jet Aircraft Engines." TIG Brief 26 (March 1, 1974):11.

- No Author Listed. "CFM56 Aimed at Current Transports." Aviation Week 101 (July 22, 1974):49.
- No Author Listed. "General Electric CF6 Engine Specifications; Tables." Aviation Week 100 (April 8, 1974):42.
- No Author Listed. "JT9D-7F Engine Developed for Heavier 747 Aircraft." Aviation Week 100 (January 28, 1974):19.
- No Author Listed. "Leading International Gas Turbines; Tables." Aviation Week 100 (March 11, 1974):169.
- No Author Listed. "P&W JT10D Engine Thrust Downrated." Aviation Week 101 (September 16, 1974):37.
- No Author Listed. "Pratt & Whitney JT9D Engine Specifications." Aviation Week 100 (June 24, 1974):54.
- No Author Listed. "Propulsion Lab Refines Engine Designs." Aviation Week 101 (July 15, 1974):247.
- No Author Listed. "U.S. Gas Turbine Engines; Tables." Aviation Week 100 (March 1, 1974):163.
- Robinson, C. A. Jr. "Text Series Seeks J85 Flameout Cause." Aviation Week 100 (May 20, 1974):18.
- Thompson, A. R. "In Which an Engine is Restarted (Or Was It?)." Approach 19 (April 1974):7.
- Yaffee, M. L. "GE Continues CF6 Family Growth; New Models of High-bypass-ratio Turbofans." Aviation Week 100 (April 8, 1974):41.
- Yaffee, M. L. "J101 Keyed to Design-to-cost Approach." Aviation Week 101 (November 18, 1974):40.
- Yaffee, M. L. "New Family of Allison Engines Evolving." Aviation Week 101 (August 12, 1974):44.
- Yaffee, M. L. "Pratt & Whitney Builds on JT9D Concept." Aviation Week 100 (June 24, 1974):49.
- Yaffee, M. L. "Teledyne Aims at Low-cost Engines; Turbojet Engines for Expendable Drones and Missiles." Aviation Week 101 (November 11, 1974):55.
- Yaffee, M. L. "Variable Cycle Jet Engine Seen Next." Aviation Week 100 (April 29, 1974):40.
- 1975
- Beitsch, D. E. "Down with Engine FOD." Aerospace Safety 31 (April 1975):16.
- Boyle, D. "Electronics at a High Temperature." Interavia 30 (April 1975):391.
- Brown, D. A. "U.S. Clears F100 Technology Transfer." Aviation Week 102 (February 24, 1975):16.
- Carter, C. J. "Erosion of T53 Series Gas Turbine Engines." USA Aviation Digest 20 (November 1975):39.

Curry, C. E. "Logistics vs the Business Cycle." Logistics Spectrum 9 (Fall 1975):35.

Davis, C. W. "Obvious...in Hindsight." Combat Crew 25 (February 1975):16.

Downum, A .M. "Old Soldiers Never Die." Logistics Spectrum 9 (Fall 1975):33.

Elson, B. M. "Digital Electronic Engine Control Studied." Aviation Week 103 (July 21, 1975):69.

Miller, B. "Engine Woes Nag F-14 Fleet Introduction." Aviation Week 103 (July 14, 1975):16.

No Author Listed. "A New Lease on Life for the JT8?" Interavia 30 (January 1975):54.

No Author Listed. "Contaminants in Jet Engine Lubrication Systems." TIG Brief 27 (September 12, 1975):6.

No Author Listed. "Engine Companies: Broadening the Business Base." Interavia 30 (June 1975):647.

No Author Listed. "Exploiting the Growth Potential." Aerospace International 11 (May-June 1975):36.

No Author Listed. "Inadvertent Engine Shutdowns." Approach 21 (August 1975):24.

No Author Listed. "Jet Blast Deflector Mishaps." Approach 20 (June 1975):16.

No Author Listed. "MTU Aero Engines: Programmes and Products." Interavia 30 (April 1975):343.

No Author Listed. "Plague of Faulty Fighter Engines." Business Week (August 25, 1975):22.

No Author Listed. "Powering the Vertical-risers: Jet VTOL Concepts Reviewed." Interavia 30 (April 1975):375.

No Author Listed. "Pratt & Whitney Finalizing JT10D Consortium." Interavia 30 (December 1975):1242.

No Author Listed. "Prop Overspeed." Approach 20 (March 1975):16.

No Author Listed. "Shaping Up for the Ten-tonne Engine Sales Battle." Interavia 30 (April 1975):336.

No Author Listed. "Air Force Review Group Probes F100 Engine: Findings Imminent." Aviation Week 102 (May 12, 1975):18.

No Author Listed. "Boeing Offers Thrust Device." Aviation Week 103 (September 22, 1975):23.

No Author Listed. "Engine Firms Expect Turn in Market." Aviation Week 102 (June 2, 1975):153.

No Author Listed. "Leading International Gas Turbines; Tables." Aviation Week 102 (March 17, 1975):125.

No Author Listed. "Rolls-Royce Predicts 150-160 RB211-powered Boeing 747s." Aviation Week 102 (June 30, 1975):24.

- No Author Listed. "U.S. Gas Turbine Engines; Tables." Aviation Week 102 (March 1, 1975):119.
- Perez, A. W. "A Time for Pilot Action: B-52 Engine-out, Roll and Yaw Considerations." Combat Crew 25 (January 1975):12.
- Rebrov, M. "Aircraft Engines Designer." Soviet Military Review 2 (February 1975):42.
- Robinson, C. A. Jr. "USAF P&W Set Fixes for F100 Turbine." Aviation Week 102 (May 19, 1975):20.
- Steere, M. "A-7D Update." TAC Attack 15 (September 1975):25.
- Yaffee, M. L. "Developers Face 1975 CFM56 Decision." Aviation Week 102 (February 24, 1975):41.
- Yaffee, M. L. "GE Increases Thrust in Engine for F-18." Aviation Week 103 (September 8, 1975):44.
- Yaffee, M. L. "Quieter, Cleaner Turbofans Being Pushed." Aviation Week 103 (September 15, 1975):70.
- Yaffee, M. L. "USAF Navy Push Demonstrator Engine." Aviation Week 102 (March 31, 1975):41.
- 1976
- Armstrong, F. W. "The Aero-engine and its Progress--Fifty Years after Griffith." Aeronautical Journal (December 1976):499.
- Bailes, K. E. "Technology and Legitimacy: Soviet Aviation and Stalinism in the 1930's." Technology and Culture 17 (June 1976):55.
- Barr, C. R. "A Problem with Ice." Aerospace Safety 32 (March 1976):26.
- Berent, M. E. "Ten-ton Competition." Aerospace International 12 (July-August 1976):36.
- Brown, M. "CFM56 Engine Still Looking for an Aircraft." Interavia 31 (September 1976):847.
- Brun, R. J. "Hurricane in a Barrel." Aerospace Safety 32 (May 1976):24.
- Carter, C. J. "More Power To You." USA Aviation Digest 22 (September 1976):40.
- Christiansen, J. S. "F-14--Weapon System in Search of its Engine." US Navy Instruction Procedures 102 (December 1976):103.
- Geddes, J. Phillip. "Civil Transport Technology Up to 2000; NASA Believes Fuel Consumption is the Major Consideration." Interavia 31 (May 1976):419.
- Grangier, M. "SNECMA M-53 Status Report." Interavia 31 (May 1976):409.
- Marriott, J. "Aerospace." NATO's Fifteen Nations 21 (April-May 1976):35.
- Miller, B. "Inflight Engine Monitoring use Expands." Aviation Week 104 (April 5, 1976):47.

Niefer, W. "Turbine Blade Manufacture for Modern Aircraft Powerplants." Interavia 31 (March 1976):238.

No Author Listed. "Foreign Object Damage." TIG Brief 28 (September 10, 1976):6.

No Author Listed. "Records are Dollars." TIG Brief 28 (November 5, 1976):14.

No Author Listed. "TFE731 Goes From Strength to Strength." Interavia 31 (January 1976):18.

No Author Listed. "Tornado Programme Slowed by Engine Delays." Interavia 31 (November 1976):1062.

No Author Listed. "Why the F-14 Needs a New Engine After All." Business Week (March 8, 1976):25.

No Author Listed. "Agcat with Turboprop Being Evaluated." Aviation Week 104 (April 26, 1976):55.

No Author Listed. "Hotter Engines Prompt Metals Advances." Aviation Week 104 (January 26, 1976):81.

No Author Listed. "Jet Engine Seal Materials Evaluated." Aviation Week 104 (June 7, 1976):59.

No Author Listed. "Leading International Gas Turbines; Tables." Aviation Week 104 (March 15, 1976):129.

No Author Listed. "P&W Belgians Set F100 Production Pact." Aviation Week 105 (August 30, 1976):25.

No Author Listed. "R&D Costs of JT10D Set at \$400 Million." Aviation Week 104 (February 2, 1976):58.

No Author Listed. "Rolls Pressing on Lower-thrust RB211." Aviation Week 105 (November 8, 1976):34.

Page, R. S. "Research...for that Hotter Running Engine." Aerospace International 12 (September-October 1976):18.

Page, R. S. "Quiet and Efficient Engines for Tomorrow." Aerospace International 12 (January-February 1976):12.

Robinson, C. A. Jr. "New Jet Engine Tests Emerge." Aviation Week 104 (May 24, 1976):14.

Stambler, Irwin. "U.S. Small Turbine Review." Interavia 31 (May 1976):44.

Whittle, Frank. "Evolution of the Internal Combustion Turbine Engine." Gas Turbine International (March-April 1976):16.

Yaffee, M. L. "Fuel-saving Engine Controls Studied." Aviation Week 104 (June 7, 1976):65.

Yaffee, M. L. "GE Pushing Effort on CF6 Engine Fix." Aviation Week 104 (March 15, 1976):197.

Yaffee, M. L. "NTSB, GE in CF6 Engine Conflict." Aviation Week 104 (April 5, 1976):22.

Yaffee, M. L. "Quiet, Clean Engine Work in New Phase." Aviation Week 104 (February 23, 1976):44.

1977

Holcomb, R. "ASTF ... the Most Expensive Facility Ever Built by the Air Force Military Construction Program." Air Force Engineering & Services Quarterly 18 (February 1977):2.

Johnson, L. P. "Care and Feeding of the Jet Engine." Interceptor 19 (September 1977):22.

No Author Listed. "Aircraft Engine Industry." Interavia 32 (May 1977):442.

No Author Listed. "CFM56: Is the Market Beginning to Develop?" Interavia 32 (June 1977):606.

No Author Listed. "Helicopter Jet Engine Water Wash." TIG Brief 29 (August 26, 1977):4.

No Author Listed. "J79 Engine Maintenance Practices." TIG Brief 29 (May 29, 1977):5.

No Author Listed. "Turbine Engine Facts." USA Aviation Digest 23 (August 1977):40.

No Author Listed. "Turbine Engine Test Practices." TIG Brief 29 (May 20, 1977):18.

No Author Listed. "Hypersonic Propulsion Milestone Passed." Aviation Week 106 (May 9, 1977):49.

No Author Listed. "Leading International Gas Turbines; Tables." Aviation Week 106 (March 21, 1977):134.

No Author Listed. "New Engine Development Adds to Japan's Technology Base: FJR 710 Turbofan Engine." Aviation Week 106 (June 6, 1977):207.

No Author Listed. "New TF30 Version Nears Production Use." Aviation Week 106 (February 28, 1977):26.

No Author Listed. "Tests Explore Turbine Blade Failures." Aviation Week 106 (February 29, 1977):64.

No Author Listed. "U.S. Gas Turbine Engines; Tables." Aviation Week 106 (March 2, 1977):132.

Pettigrew, J. L.; and McCord, R. M. "Engine In-flight Monitoring Update." Combat Crew 27 (July 1977):10.

Pettigrew, J. L.; and McCord, R. M. "Propulsion Reliability Improvement Through Inflight Performance Monitoring." Combat Crew 27 (January 1977):8.

Pyne, F. B. "TF30 Integrity Assurance Study Group." Aerospace Safety 33 (March 1977):6.

Stein, T. A. "Turbine Engine Durability Testing--a Lesson Learned." Aerospace Safety 33 (February 1977):6.



Webb, R. "Phantom Phlyers: Check Your Six Before Flight, Too." Approach 22 (April 1977):20.

Wetmore, W. C. "Engine Design Awaits Transport Plan." Aviation Week 107 (November 7, 1977):81.

Wetmore, W. C. "F-16 Engine Partnership Plans Nearing Completion." Aviation Week 106 (May 2, 1977):115.

Wetmore, W. C. "Refanned JT8D Aimed at Retrofits." Aviation Week 106 (May 16, 1977):17.

1978

Boyle, D. "Engine Automation--British Companies Continue to Advance." Interavia 33 (March 1978):195.

Brindley, J. F. "Pratt & Whitney's JT8D-209 Programme." Interavia 33 (September 1978):867.

Brindley, J. F. "The 'Big Fans' Come of Age." Interavia 33 (August 1978):707.

Brindley, J. F. "The General Electric F404--Driving Force for the F-18." Interavia 33 (March 1978):609.

Brindley, J. F. "The Second Generation of High-bypass Turbofans: A Market Clouded by Uncertainty." Interavia 33 (August 1978):711.

Carlson, Richard M.; and Morrow, Henry L. "What's New in Advanced Aircraft Engine Developments?" Army Research and Development Magazine (April 1978):24.

Cutter, R. A. "Propeller Makes a Comeback." Mechanics Illustrated 74 (April 1978):38.

Geddes, J. Phillip. "Giants Battle in U.S. Small Turbine Market." Interavia 33 (March 1978):179.

Kraar, L. "Pratt & Whitney's Problem Engine." Fortune 98 (November 6, 1978):56.

Lenorovitz, J. M. "Air Carriers Study Reengining DC-8." Aviation Week 109 (December 4, 1978):29.

No Author Listed. "Another First for Army Guard Aviation." USA Aviation Digest 24 (February 1978):5.

No Author Listed. "Engine Tracking System." TIG Brief 30 (November 17, 1978):15.

No Author Listed. "Engines for Future SSTs--Improving Performance and Reducing Noise." Interavia 33 (March 1978):185.

No Author Listed. "Improper Preparation of J79 Engines for Transportation." TIG Brief 30 (January 6, 1978):14.

No Author Listed. "Turbomeca Prepares for the Future to Stay Competitive." Interavia 33 (May 1978):423.

No Author Listed. "ALF502L's Commercial Uses Stressed; Turbofan Engine." Aviation Week 108 (June 26, 1978):21.

No Author Listed. "Device Measures, Trims Installed Engine's Thrust." Aviation Week 108 (April 3, 1978):44.

No Author Listed. "Engine Firms Gear Efforts to Market." Aviation Week 109 (September 11, 1978):57.

No Author Listed. "Engine Retrofit Kit Readied for T-34; Turboprop Engine Conversion." Aviation Week 109 (September 4, 1978):28.

No Author Listed. "F101X Engine Planning Altered; Fighter Engine." Aviation Week 109 (October 30, 1978):14.

No Author Listed. "Immediate Markets Seen for Volvo-Garrett Engine." Aviation Week 108 (May 8, 1978):14.

No Author Listed. "International Gas Turbines; Table." Aviation Week 108 (March 13, 1978):135.

No Author Listed. "Manufacturers Broaden Engine Families." Aviation Week 109 (August 12, 1978):62.

No Author Listed. "New Engine Aimed at Use in Small Jets." Aviation Week 87 (October 9, 1978):96.

No Author Listed. "New Nozzle Developed; Photographs." Aviation Week 109 (September 4, 1978):145.

No Author Listed. "New Production Methods Gain." Aviation Week 109 (October 16, 1978):16.

No Author Listed. "New Production Methods Gain." Aviation Week 30 (November 20, 1978):44.

No Author Listed. "Titanium Fires Prompt Change to Steel." Aviation Week 108 (May 29, 1978):31.

No Author Listed. "U.S. Gas Turbine Engines; Tables." Aviation Week 108 (March 1, 1978):131.

No Author Listed. "Uncertainty Prompts Manufacturers to Link Business Jet Engine Efforts." Aviation Week 127 (September 28, 1978):111.

Smith, B. A. "Ceramic parts Tested in T76 Engine." Aviation Week 109 (July 24, 1978):43.

Wetmore, W. C. "Aging Cited in Off-idle Stalls of JT8Ds." Aviation Week 109 (October 30, 1978):24.

Wetmore, W. C. "Pratt & Whitney Rerates Engine Series JT9D Program." Aviation Week 109 (August 12, 1978):46.

1979

- Abler, P. "Things that Go Bump in the Flight...or Where do all Those Compressor Stalls Come From Anyway?" TAC Attack 19 (March 1979):18.
- Bergman, A; and Weyrauch, S. "Stall/Stagnation--the Pilot Factor." TAC Attack 19 (March 1979):4.
- Bulban, Erwin J. "Engine, Subsystem Makers Strive to Meet New Demand: Business Flying." Aviation Week 111 (October 1, 1979):18.
- Bullock, C. "Ramjet Renaissance Imminent?" Interavia 34 (September 1979):854.
- Covault, C. "NASA Defining Fuel-efficient Program." Aviation Week 111 (October 8, 1979):74.
- Geddes, J. Phillip. "The DC-9 Super 80--Much More than a Simple Stretch." Interavia 34 (September 1979):865.
- Kocivar, B. "Giant Centrifuge May Help Test Jet Engines." Popular Science 215 (October 1979):215.
- Lenorovitz, J. M. "DC-8 Reengining Program Under Way." Aviation Week 110 (April 30, 1979):42.
- Lenorovitz, J. M. "United CFM56 Selection Sparks DC-8 Retrofit; United Picks CFM56 for DC-8-60s." Aviation Week 110 (April 9, 1979):18.
- Marsk, A. K. "Turbine Blade Shortage Delays F-15 Maintenance." Aviation Week 110 (March 19, 1979):20.
- Mayfield, J. "Computer-controlled Production Gains; Automated Casting Facility of Pratt & Whitney." Aviation Week 111 (December 3, 1979):41.
- Mayfield, J. "Manufacturers Developing Fuel-efficient Engines." Aviation Week 110 (May 28, 1979):46.
- Mayfield, J. "Metal Powders Use in Engines on the Rise." Aviation Week 111 (September 3, 1979):46.
- Mayfield, J. "Single Crystal Technology Use Starting." Aviation Week 111 (October 1, 1979):69.
- Mayfield, J. "Superalloy R&D Activities Intensified." Aviation Week 111 (August 27, 1979):75.
- No Author Listed. "Fuel Efficient Turboprops." Aerospace International 15 (October-November 1979):48.
- No Author Listed. "Improper Interpretation or Altering of Engine Historical Records Can Cause Aircraft Accidents." TIG Brief 31 (May 4, 1979):7.
- No Author Listed. "Improperly Packaged Jet Engines." TIG Brief 31 (August 3, 1979):7.
- No Author Listed. "Pacer Comet Zips Jet Engine Tests." Air Force Times (January 22, 1979):6.
- No Author Listed. "Rivalry Intensifies for Airbus Engines; Pratt & Whitney vs GE-Sneema Over Air France Contract." Business Week (November 5, 1979):68.

No Author Listed. "Turboprop Gets Hot Again." Business Week (June 4, 1979):126.

No Author Listed. "Consistency Primary Goal in Computerized Facility; Pratt & Whitney Aircraft Group's Automated Casting Facility." Aviation Week 111 (December 3, 1979):55.

No Author Listed. "Decision on F100 Apportionment Nears." Aviation Week 111 (November 26, 1979):18.

No Author Listed. "F100 Engine Problems Studied." Aviation Week 110 (April 30, 1979):32.

No Author Listed. "F100 Problems Spur Durability Stress." Aviation Week 111 (December 10, 1979):24.

No Author Listed. "GE Keys Civil Engine Efforts to CF34, CT7." Aviation Week 111 (July 2, 1979):74.

No Author Listed. "International Gas Turbines; Tables." Aviation Week 110 (March 12, 1979):117.

No Author Listed. "NASA Drive Stresses Fuel Efficiency; Engine Research Study of Aircraft Energy Efficiency Program." Aviation Week 111 (November 12, 1979):167.

No Author Listed. "Navy TF30 Problems Continue Despite Fixes." Aviation Week 110 (April 2, 1979):14.

No Author Listed. "Navy, USAF to Develop Alternate Fighter Engine." Aviation Week (August 21, 1979):13.

No Author Listed. "New Repair Process Developed for Guide Vanes." Aviation Week 111 (October 22, 1979):67.

No Author Listed. "Rolls Stressing Composites in Engines." Aviation Week 111 (September 10, 1979):58.

No Author Listed. "Test Facility to Boost Arnold Capability." Aviation Week 110 (January 29, 1979):203.

No Author Listed. "Transport Reengining Program Boosting CFM56 Engine Sales." Aviation Week 111 (December 31, 1979):26.

North, D. M. "Increased TFE731 Reliability Achieved." Aviation Week 109 (July 24, 1979):55.

O'Lone, R. G. "Boeing Weighs 727 Reengining." Aviation Week 110 (January 22, 1979):34.

Robins, Y. "The Drive Behind the Glamor: Engines at the Paris Air Show." Aerospace International 15 (June-July 1979):38.

Smith, B. A. "Reliability Key to Engine Power Unit." Aviation Week 110 (May 14, 1979):63.

Wetmore, W. C. "Augmented Turbofan Performing Well in Test Series." Aviation Week 111 (October 15, 1979):70.

Wetmore, W. C. "CF6-80 Powerplant Designed for Growth." Aviation Week 110 (May 7, 1979):43.

Wetmore, W. C. "F101 Engine Derivative Work Advances." Aviation Week 110 (May 14, 1979):57.  
1980

Aidarov, Lt Col V. "Aircraft Engine Designer (A. A. Mikulin)." Soviet Military Review 2 (February 1980):34.

Artoni, A. "Large Civil Turbofans." Aerospace International 16 (September-October 1980):48.

Artoni, A. "New Trends in Advanced Technology Military Engines." Aerospace International 16 (July-August 1980):16.

Boyle, D. "New Developments in U.S. Military Fighter Engines." Interavia 35 (May 1980):415.

Carter, C. J. "A Boot Full of Rudder." TAC Attack 20 (July 1980):4.

Carter C J. "A Boot Full of Rudder." Aerospace Safety 36 (August 1980):10.

Coniglio, S. "The Return of the Turboprop Engine." Aerospace International 16 (November-December 1980):55.

Epstein, Sheldon; and Wiliamowsky, Yonah. "A Disk Replacement Policy for Jet Engines." Logistics Spectrum (June 1980):42.

Ferre, F. "Seeing Clearly." Flying 107 (October 1980):107.

Garrison, P. "Half-hearted Twin." Flying 107 (November 1980):37.

Garrison, P.; and Collins, R. L. "Dead Engine: Single; Engine Failure: Twin." Flying 106 (November 1980):48.

Grangier, M. "Trends in New-generation Turboprop Engines." Interavia 35 (May 1980):422.

Griffiths, D. R. "Contention Over F100, F101X Intensifies." Aviation Week 112 (March 31, 1980):77.

Griffiths, D. R. "Crash Investigations Spur Engine Recommendations." Aviation Week 113 (September 15, 1980):86.

Langewiesche, W. "Tune Up the Turbines; Business Jets." Flying 106 (January 1980):41.

Madden, J. L.; and Williamson, V. L. "Opportunistic Base and Depot Maintenance Policies for F100 Engines in F-15 Aircraft." Air Force Journal of Logistics 4 (Winter 1980):18.

Mayfield, J. "Navy Asks Just One Change in F404." Aviation Week 112 (September 1, 1980):299.

McGowen, J. "The DC-8 Re-engining Program." Interavia 35 (May 1980):419.

- Miller, J. "Jet Engines, Jet Aircraft, and In-flight Refueling." Air Force Times 41 Pt. 1 (September 8, 1980):23.
- Miller, J. "Jet Engines, Jet Aircraft, and In-flight Refueling." Air Force Times 41 Pt. 2 (September 15 1980):28.
- Morris, D. "Down and Out." Flying 107 (September 1980):60.
- Murray, R. D. "More Flying Hours Asked--Jet Engines Available." Air Force Times 40 (May 12, 1980):7.
- No Author Listed. "Crisis Ahead in Metals Vital to Engines." Air Force Times 40 (April 28, 1980):13.
- No Author Listed. "Historical Records Related to 'On-condition Maintenance'." TIG Brief 32 (May 30, 1980):13.
- No Author Listed. "New Life for Old Birds." Aerospace International 16 (March-April 1980):56.
- No Author Listed. "Unique Warranty On the Troubled F100." Business Week (June 9, 1980):34.
- No Author Listed. "Additional F101 Funds Sought." Aviation Week 112 (April 7, 1980):50.
- No Author Listed. "Compressor Disk Cited in F-16 Crash." Aviation Week 112 (June 2, 1980):65.
- No Author Listed. "Crash Probe, Roll-rate Check Delay F/A-18 Program Review." Aviation Week 113 (October 6, 1980):28.
- No Author Listed. "F-18 Program Review Sparks Optimism." Aviation Week 113 (November 17, 1980):21.
- No Author Listed. "Israelis Pick F404 for New Fighter." Aviation Week 112 (March 10, 1980):12.
- No Author Listed. "Navy Expects \$500 Million Will Solve TF30 Problems." Aviation Week 112 (January 28, 1980):68.
- No Author Listed. "Plan To Reengine 707 with CFM56 Suspended." Aviation Week 112 (April 28, 1980):35.
- No Author Listed. "Report by Comptroller General Highly Critical of F101X Engine." Aviation Week 112 (March 31, 1980):26.
- No Author Listed. "Soviets Gain Access to U.S. Engine." Aviation Week 113 (September 22, 1980):24.
- North, D. M. "Changes to F404 Engine Urged by Design Review." Aviation Week 113 (December 8, 1980):24.
- North, D. M. "Fund Action Key to KC-135 Reengining." Aviation Week 112 (June 23, 1980):58.

- Schemmer, B. F. "Fortunes of DOD's Two Aircraft Engine Giants about to be Reversed." Armed Forces Journal International 117 (May 1980):18.
- Sciano, C. "Computerized Engine Testing." National Defense 65 (December 1980):45.
- Sidler, G. V.; and Officer, W. K. "Aeropropulsion Systems Test Facility." Military Engineer 72 (January-February 1980):36.
- Sweetman, B. "Big-fan Engine--a New U.S. Generation." Interavia 35 (May 1980):411.
- Sweetman, B. "Can Anyone Follow the JT8D?" Interavia 35 (October 1980):936.
- Williams, N. M. "The Convair YC-131C Turboliners." American Aviation Historical Society Journal 25 (Winter 1980):251.
- Wood, D. "European Military Engines--How will They Survive?" Interavia 35 (October 1980):947.
- 1981
- Broad, W. J. "Threat to U.S. Air Power: the Dust Factor." Science 213 (September 25, 1981):1475.
- Coniglio, S. "Turboprops for General Aviation." Aerospace International 17 (May-June 1981):31.
- Dienger, G.; and Bialojan, B. "Electronic Engine Control for Commercial Aircraft." Interavia 36 (April 1981):313.
- Garrison, P. "Hot Section Session." Flying (November 1981):104.
- Geisenheyner, S. "Gas Turbines for the 90's." Asian Defense Journal 8 (August 1981):76.
- Grangier, M. "Single-Engine or Light Twin? A Difficult Choice for the Buyer." Interavia 36 (March 1981):256.
- Griffiths, D. R. "USAF Undertakes Search for Low-Thrust F100s." Aviation Week 115 (October 12, 1981):28.
- Kolcum, E. H. "Derivative of F100 Engine Prepared for Testing." Aviation Week 115 (November 30, 1981):54.
- Kolcum, E. H. "Engine Competition Eyes Fuel Efficiency." Aviation Week 115 (November 2, 1981):41.
- Kolcum, E. H. "F-14 to Receive Improved TF30 Engine." Aviation Week 115 (August 17, 1981):62.
- Larson, G. "F-15 Dual Engine Restart Procedures." Flying Safety 37 (March 1981):25.
- Lowndes, J. C. "New Blade Containment Saves Weight." Aviation Week 114 (May 18, 1981):133.
- Lowndes, J. C. "Propfan Flight Tests Meet Predictions." Aviation Week 115 (July 20, 1981):71.

- Meyer, D. G. "New F-101 DFE (Derivative Fighter Engine) Makes Debut in F-16; Flight Tests in F-14 Now Underway." Armed Forces International 118 (August 1981):16.
- Muller, Felix. "Aero Engine Technology--the Sources of Power." Armada International 5 (September-October 1981):24.
- No Author Listed. "Digital Control even more vital for Military Engines." Interavia 36 (April 1981):318.
- No Author Listed. "USAF to Fund F-16XL Development, plus F-15E." Armed Forces Journal International 118 (August 1981):16.
- No Author Listed. "Boeing Will Present Proposals for Reengining 727-200 Aircraft." Aviation Week 114 (June 15, 1981):31.
- No Author Listed. "Company to Use Digital Device for Advanced Engine Analysis." Aviation Week 115 (December 14, 1981):69.
- No Author Listed. "Cyclic Testing Complete on Garrett Turboprop." Aviation Week 115 (November 16, 1981):50.
- No Author Listed. "Device Gauges Engine Turbine Temperatures." Aviation Week 114 (January 12, 1981):47.
- No Author Listed. "FAA Funds Engineering Study of Damage by Bird Ingestion." Aviation Week 115 (August 17, 1981):34.
- No Author Listed. "GE to Expand Warranty offer to Navy." Aviation Week 115 (July 27, 1981):19.
- No Author Listed. "Inco Markets New Alloy." Aviation Week 114 (June 8, 1981):334.
- No Author Listed. "International Gas Turbine Engines." Aviation Week 114 (March 9, 1981):150.
- No Author Listed. "Multinational Gas Turbine Engines." Aviation Week 114 (March 9, 1981):152.
- No Author Listed. "Navy Seeks to Reengine P-3C." Aviation Week 115 (September 21, 1981):60.
- No Author Listed. "Navy Sets F-14 Reengining Schedule." Aviation Week 115 (September 21, 1981):96.
- No Author Listed. "New Business in Reengining Transports Forecast." Aviation Week 115 (November 9, 1981):166.
- No Author Listed. "Pratt & Whitney Proposes Reengined Boeing B-52G." Aviation Week 115 (November 30, 1981):54.
- No Author Listed. "Soviets Develop Turboshift Powerplant for Transports." Aviation Week 114 (June 15, 1981):28.



No Author Listed. "Test Clears Hurdle to HU-25A Delivery." Aviation Week 114 (February 16, 1981):23.

No Author Listed. "U.S. Gas Turbine Engines." Aviation Week 114 (March 9, 1981):148.

Ropelewski, R. R. "F-14 Performance Up with 101 Engines." Aviation Week 115 (October 19, 1981):44.

Van Meter, K. "T-bird, T-storm." Flying 108 (March 1981):24.

Wilson, M. "Digital Engine Management-Promise for the next Generation of Fighters." International Defense Review 14 1 (September 1981):90.

Wood, D.; and Maurice, P. "Battle of the 15 Tonne Fans." Interavia 36 (June 1981):561.

1982

Clausen, P. "Marketing Rises for Reengining, Upgrades." Aviation Week 117 (July 26, 1982):101.

Collins, R. L. "Unmatched Doubles." Flying 109 (August 1982):45.

Condom, Pierre. "Engines for Future Combat Aircraft: What's Needed and What's Achievable." Interavia 37 (October 1982):1050.

Fallows, J. M. "Trouble With the Air Force's Eagle." Atlantic 249 (January 1982):64.

Garrison, P. "Paper Tigers." Flying 109 (August 1982):20.

Garrison, P. "Pumping Iron: The Inside Story of Internal Combustion." Flying 109 (October 1982):68.

Hewish, Mark. "Full-Authority Digital Engine Control: British Developments for Aircraft Applications." International Defense Review 15 (July 1982):1037.

Kankey, Roland D. "Precepts for Life Cycle Cost Management." Air Force Journal of Logistics (January 1982):24.

Klass, P. J. "Shift Seen to Digital Electronic Control." Aviation Week 116 (June 28, 1982):221.

Kocivar, B. "Square Jet Nozzles." Popular Science 220 (February 1982):20.

Kolcum, E. H. "New Facility to Test Turbine Fatigue." Aviation Week 116 (March 1, 1982):44.

Kolcum, E. H. "Pratt Offers USAF Fixed Price for F100 Engines." Aviation Week 117 (December 13, 1982):22.

Kozicharow, E. "Noise Controlled Facility Services F-16 Engines." Aviation Week 117 (July 12, 1982):57.

Lacombe, Capt Phil. "Wizardry at Wright-Pat." Air Force Magazine 65 (January 1982):66.

Leavens, John M. Jr. "The Outlook for Advanced Transport Aircraft." Aeronautics and Astronautics (February 1982):39.

Lewis, W. J. "V/STOL Propulsion: Past, Present, and Future." Air Force Magazine (January 1982):23.

Lowndes, J. C. "Congress' Support Aids Propfan Work." Aviation Week 116 (June 28, 1982):88.

Lowndes, J. C. "Garrett Testing New Alloy of Aluminum." Aviation Week 116 (January 25, 1982):67.

Mann, P. "Air Force Intending Dual Engine Purchase." Aviation Week 116 (May 31, 1982):14.

McAbee, Frank W. Jr. "Turbine Technologies of Tomorrow." Air Force Magazine 65 (January 1982):80.

McClellan, J. M. "Frakes Rejuvenation." Flying 109 (October 1982):30.

McClellan, J. M. "Metamorphosis." Flying 109 (August 1982):51.

Mordoff, K. F. "Engine Makers Improving Core Sections." Aviation Week 116 (June 28, 1982):121.

Mordoff, K. F. "General Electric Testing F404 Derivative Engine." Aviation Week 116 (April 12, 1982):59.

Mordoff, K. F. "Initial PW2037 Engine Test Completed." Aviation Week 116 (January 25, 1982):48.

Nelson, R. "The Blackbird's Power Package." Popular Mechanics 158 (July 1982):73.

No Author Listed. "Jet Engine Creates an Unlikely Alliance." Business Week (September 13, 1982):47.

No Author Listed. "F100 Engine Update." TAC Attack 22 (January 1982):12.

No Author Listed. "Importance of DO24 Engine Status Reporting." TIG Brief 34 (May 28, 1982):10.

No Author Listed. "Birds Flung at Airplanes." Science Digest 90 (August 1982):24.

No Author Listed. "Advanced F100 Powerplant Program Delayed by Damage." Aviation Week 116 (February 1, 1982):28.

No Author Listed. "CFM56-2 Changed to Correct Problems." Aviation Week 117 (November 1, 1982):35.

No Author Listed. "Commuter Engine Efforts Aimed at Cost Cuts." Aviation Week 116 (June 28, 1982):110.

No Author Listed. "F100 Derivative Flight Test Set." Aviation Week 117 (December 27, 1982):10.

No Author Listed. "GE Inspecting CF6-50 Disk Fragments." Aviation Week 116 (April 5, 1982):33.

No Author Listed. "GE Tests Find Inspection Missed CF6 Disk Crack." Aviation Week 116 (April 12, 1982):34.

No Author Listed. "International Gas Turbine Engines." Aviation Week 116 (March 8, 1982):151.

No Author Listed. "Multinational Gas Turbine Engines." Aviation Week 16 (March 8, 1982):147.

No Author Listed. "New Nozzle Design Aimed at F-15, F-16 Aircraft." Aviation Week 117 (September 13, 1982):67.

No Author Listed. "Pratt & Whitney to Certify New Powerplants." Aviation Week 117 (December 13, 1982):24.

No Author Listed. "Propulsion." Aviation Week 116 (June 28, 1982):44.

No Author Listed. "Rolled Bar Used in Blade Manufacture." Aviation Week 116 (May 17, 1982):102.

No Author Listed. "Rolls-Royce Seeks U.S. Partner for New Transport Powerplant." Aviation Week 116 (February 22, 1982):30.

No Author Listed. "Suppliers Press Technology Advances." Aviation Week 116 (June 28, 1982):108.

No Author Listed. "Sweden Evaluates Powerplant Proposals." Aviation Week 116 (January 25, 1982):24.

No Author Listed. "U.S. Gas Turbine Engines." Aviation Week 116 (March 8, 1982):148.

No Author Listed. "USAF Installs Blade Inspection System." Aviation Week 117 (August 2, 1982):63.

No Author Listed. "USAF Studying Automated Engine Inspection, Repair." Aviation Week 116 (June 28, 1982):110.

North, D. M. "Airline Schedules Reengining of its 747s." Aviation Week 116 (June 7, 1982):34.

North, D. M. "Garrett Adopts Modular Manufacturing." Aviation Week 116 (February 1, 1982):67.

Payne, Lee. "The Great Jet Engine Race...and How We Lost." Air Force Magazine 65 (January 1982):58.

Rek, Bron. "Pratt & Whitney's Rejuvenated JT9D." Interavia 37 (February 1982):178.

Scott, W. B. "Engine Control Boosts Performance." Aviation Week 116 (May 31, 1982):67.

Scott, W. B. "Fix Found for A-10 Residue Problem." Aviation Week 116 (February 8, 1982):47.

Stein, K. J. "Digital Control Aids Engine Management." Aviation Week 116 (February 22, 1982):77.

Stein, K. J. "New Consoles Aid Engine Development." Aviation Week 117 (July 19, 1982):114.

Thompson, Steven L. "Small is Versatile (Range of Technology Encompasses Small as Well as Large Turbine Engines)." Air Force Magazine 65 (January 1982):72.

Williams, Maj Philip J. "Resources Allocation--The F-100 Engine Experience." Air Force Journal of Logistics 6 (Spring 1982):15.

Wippel, Capt Clifford M. "On Fusion Confusion." Combat Crew 32 (June 1982):4.

1983

Banks, H. "Jet Wars." Forbes 132 (August 15, 1983):32.

Brecher, J. "Neutron Jack vs. the Shark." Newsweek 102 (August 29, 1983):54.

Brown, D. A. "Makers of Small Turbines Pursue Broadening Market." Aviation Week 118 (June 13, 1983):69.

Browne, P. "We've Lost All Four Engines." Reader's Digest 122 (June 1983):114.

Dillingham, B. "The Chicken Flap." Nation 237 (August 20-27, 1983):133.

Fink, D. E. "Pratt, Rolls Launch New Turbofan." Aviation Week 119 (November 7, 1983):28.

Gregory, W. H. "The Old Chicken Gun Story." Aviation Week 118 (June 27, 1983):23.

Heiser, William H. "Investing in America's Future" National Defense 68 (September 1983):32.

Kolcum, E. H. "F100 Evaluation to Verify High-performance Design." Aviation Week 119 (October 24, 1983):71.

Kozicharow, E. "USAF Awards Alternate Engine Long-Lead Pacts." Aviation Week 119 (December 19, 1983):25.

Mann, P. "Justice will Scrutinize Engine Project." Aviation Week 118 (April 4, 1983):18.

McClellan, J. M. "Getting a Handle on Horsepower." Flying 110 (February 1983):85.

McClellan, J. M. "The Ultimate Single: Peregrine Power." Flying 110 (December 1983):46.

McClellan, J. M. "Turboprop Progress." Flying 110 (July 1983):3032.

Mordoff, K. F. "General Electric F101 Production Nears." Aviation Week 119 (August 1, 1983):47.

Mordoff, K. F. "Manufacturers Push Engine Technology." Aviation Week 119 (October 3, 1983):99.

Mordoff, K. F. "PW4000 Uses JT9D, New Technology." Aviation Week 118 (March 28, 1983):43.

Mordoff, K. F. "Robots Assist in Turbine Blade Coating." Aviation Week 119 (July 18, 1983):85.

Muller, Felix. "Military Jet Engine Technology," Armada International 7 (March-April 1983):82.

Nelson, Col James. "New Thrusts in Engine Design." Air Force Magazine 66 (January 1983):54.

No Author Listed. "F-16 Fighting Falcon: Simply Lethal." National Guard 37 (September 1983):20.

No Author Listed. "FOD: The Enemy." TIG Brief 35 (January 10, 1983):11.

No Author Listed. "American Experiences CFS-80 Shutdowns." Aviation Week 118 (January 24, 1983):34.

No Author Listed. "CT7 Turboprop Finishes Flight Tests on Gulfstream Aircraft." Aviation Week 118 (January 31, 1983):29.

No Author Listed. "Engine of the Future Defined." Aviation Week 118 (April 18, 1983):156.

No Author Listed. "F-15 Digital Electronic Engine Control Shown to be Feasible." Aviation Week 118 (June 13, 1983):131.

No Author Listed. "FAA, General Electric Study CF6 Problem." Aviation Week 118 (January 31, 1983):34.

No Author Listed. "Falcon 20 Offered with ATF3-6 Retrofit." Aviation Week 118 (May 30, 1983):341.

No Author Listed. "Firms Agree on 150-seat Transport Engine." Aviation Week 118 (February 28, 1983):28.

No Author Listed. "General Electric Undertakes Powerplant Qualification Tests." Aviation Week 119 (August 1, 1983):48.

No Author Listed. "International Gas Turbine Engines." Aviation Week 118 (March 14, 1983):158.

No Author Listed. "Investigation Team Identifies Causes of CF6-80 Problem." Aviation Week 118 (February 7, 1983):32.

No Author Listed. "Joint Effort Set on 150-seat Aircraft Engine." Aviation Week 118 (March 14, 1983):263.

No Author Listed. "Multinational Gas Turbine Engines." Aviation Week 118 (March 14, 1983):153.

No Author Listed. "New Engine Series Stresses Efficiency." Aviation Week 118 (May 30, 1983):243.

No Author Listed. "New Engine Work-sharing Talks Continue." Aviation Week 118 (March 21, 1983):23.

No Author Listed. "Teledyne Finishes Static Tests of Convertible Astafan Engine." Aviation Week 119 (August 15, 1983):51.

No Author Listed. "Three-nation Consortium Plans New Engine Family." Aviation Week 118 (May 30, 1983):267.

No Author Listed. "U.S. Gas Turbine Engines." Aviation Week 118 (March 14, 1983):154.

No Author Listed. "USAF Awards Alternate Engine Long-Lead Pacts." Aviation Week 119 (October 10, 1983):28.

No Author Listed. "USAF Rejects Firm's Multiyear Acquisition Proposal For F100." Aviation Week 118 (February 21, 1983):24.

No Author Listed. "USAF to Seek Fighter Engine Bids." Aviation Week 118 (May 2, 1983):14.

North, D. M. "Engine Boosts Jetstream Performance." Aviation Week 118 (January 3, 1983):43.

O'Lone, R. G. "Engine Gains Could Aid 737 Derivatives." Aviation Week 119 (September 19, 1983):34.

Ropelewski, R. R. "CFM56s Boost KC-135R Performance." Aviation Week 118 (May 3, 1983):42.

Ropelewski, R. R. "New Engines Boost MD-100 Plans." Aviation Week 119 (July 25, 1983):26.

Scott, W. B. "USAF Tests Turbine Monitoring System." Aviation Week 119 (November 7, 1983):77.

Smith, W. S. "High-Altitude Conk Out." Natural History 92 (November 1983):26.

Sweetman, B. "The Civil Big-Fan Battle--Engine Manufacturers Sharpen Their New Weapons." Interavia 38 (December 1983):1267.

1984

Braybrook, Roy. "Turbofan Basic Trainers." Pacific Defense Report 11 (August 1984):64.

Coplin, John F. "Regeneration of the Turboprop." Aeronautical Journal 88, No. 871 (January 1984):427.

Feazel, M. "Large Engine Design Costs Dictate Consortium Efforts." Aviation Week 120 (June 18, 1984):108.

Ford, Terrence E. "For the Eighties and Beyond." Aircraft Engineer 56 (December 12, 1984):2.

Geisenheyner, S. "Into the V/STOL Future with PCB (Plenum Chamber Burning)." Asian Defense Journal No. 2 (February 1984):24.

Gilleece, Mary Ann. "The Warranty Tool." Defense/84, American Forces Information Service (February 1984):23.

Hawkins, Robert C. "Unducted Fan for Tomorrow's Subsonic Propulsion." Aerospace America 22 (October 10, 1984):52.

Kinnan, Lt Col Timothy A. "The Fighter Pilot's Guide to Compressor Stalls." TAC Attack 24 (August 1984):10.

Kozicharow, E. "Airlines Study Turbine Blade HIP Processing." Aviation Week 121 (July 2, 1984):30.

- Kozicharow, E. "Navy Switches F-14D to F110 Engines." Aviation Week 120 (February 13, 1984):24.
- LaPlante, Brig Gen Thomas A. "The Care and Feeding of Gas Turbines." Air Force Magazine 67 (January 1984):64.
- Lenorovitz, J. M. "European Companies Team for CFM56-4 Reverser Bid." Aviation Week 120 (January 9, 1984):32.
- Littlejohn, Henry L. "Today's Jet Engines are Better than Ever." Flying Safety 40 (April 1984):5.
- Lowndes, J. C. "Hamilton Standard Pushes Digital Control Effort." Aviation Week 121 (November 12, 1984):219.
- McClellan, J. M. "High-tech Engines." Flying 111 (May 1984):66.
- McClellan, J. M. "Status Report: Turning Lose the Turbine Singles." Flying 111 (February 1984):42.
- McClellan, J. M. "What Wears and Tears: Turbines." Flying 111 (November 1984):127.
- Meyer, D. G. "Engine Thrust Still as Issue with Decision Just Weeks Away." Armed Forces Journal International 121 (January 1984):58.
- Mordoff, K. F. "F404 Engine may Include Composite Material Duct." Aviation Week 121 (September 17, 1984):69.
- Mordoff, K. F. "Floatwall Combustor Design May Extend Component Life." Aviation Week 121 (July 9, 1984):56.
- Mordoff, K. F. "GE, Rolls Sign Engine Risk, Profit Sharing Agreement." Aviation Week 120 (February 13, 1984):29.
- Mordoff, K. F. "New Technologies Adapted to Engines." Aviation Week 121 (October 1, 1984):49.
- Nelson, R. "A Look Inside the Super-engines." Popular Mechanics 161 (February 1984):80.
- No Author Listed. "Ash-blasted." Flying 111 (August 1984):26.
- No Author Listed. "Dogfight." Time 123 (February 13, 1984):51.
- No Author Listed. "Rolls-Royce European Symposium 1983." Aeronautical Journal 88, No.871 (January 1984):23.
- No Author Listed. "Second Stage of Engine Inspections: Subtle Danger." TIG Brief 36 (June 25, 1984):6.
- No Author Listed. "Turbo Typhoon--Who's Responsible?" MAC Flyer 31 (December 1984):15.
- No Author Listed. "757 Engine Controls Survive Lightning Strike." Aviation Week 121 (August 20, 1984):22.

No Author Listed. "Allison Operates Airflow Tester." Aviation Week 121 (August 13, 1984):65.

No Author Listed. "B-1B Sustains Engine Damage on First Flight." Aviation Week 121 (October 29, 1984):16.

No Author Listed. "California Firms Start Engine Retrofit Venture." Aviation Week 120 (April 9, 1984):24.

No Author Listed. "Cessna Increases Reliance on Turbine-powered Line." Aviation Week 120 (May 7, 1984):100.

No Author Listed. "Company Aims for Engine Certification." Aviation Week 120 (January 2, 1984):60.

No Author Listed. "Engine Makers Stress Product Support in Maintenance Programs." Aviation Week 121 (November 12, 1984):125.

No Author Listed. "Engine Makers Use Derivatives to Build in Reliability, Cut Costs." Aviation Week 120 (June 18, 1984):112.

No Author Listed. "Engine Retrofits of Jetstar, Jet Commander Offer Fuel Savings." Aviation Week 121 (September 10, 1984):59.

No Author Listed. "F100 Sales Drop Affects Bendix Controls." Aviation Week 121 (November 19, 1984):28.

No Author Listed. "F110 Disk Crack Traced to Coating." Aviation Week 121 (August 6, 1984):18.

No Author Listed. "FAA Certificates Pratt & Whitney PW2037 Engine." Aviation Week 120 (January 2, 1984):27.

No Author Listed. "GE, Sneema Weigh CFM56 Follow-on to Match V2500." Aviation Week 120 (May 28, 1984):20.

No Author Listed. "GE Tests Unducted Fan System in Tunnel." Aviation Week 121 (October 15, 1984):72.

No Author Listed. "Grumman Awarded Contracts for Upgrades to F-14, A-6E." Aviation Week 121 (August 6, 1984):18.

No Author Listed. "International Gas Turbine Engines." Aviation Week 120 (March 12, 1984):168.

No Author Listed. "Japan Studying Carbon Fiber Blades." Aviation Week 121 (November 12, 1984):91.

No Author Listed. "Manufacturers Modify AV-8B, its Engines to Solve Problems." Aviation Week 121 (August 27, 1984):22.

No Author Listed. "Multinational Gas Turbine Engines." Aviation Week 120 (March 12, 1984):166.



No Author Listed. "Multiyear Engine Procurement Will Save B-1B Program Funds." Aviation Week 121 (December 10, 1984):20.

No Author Listed. "NASA Funds Garrett for Ceramic Study." Aviation Week 121 (December 17, 1984):58.

No Author Listed. "Navy Studies Retrofitting F-14 with F110 Engines." Aviation Week 121 (July 16, 1984):26.

No Author Listed. "New Fighter Engine Planned." Aviation Week 121 (August 27, 1984):23.

No Author Listed. "Pratt & Whitney Names JT8D-200 Partners." Aviation Week 120 (June 18, 1984):43.

No Author Listed. "Pratt & Whitney Proposes New F100 Version to Power F-15E." Aviation Week 120 (May 7, 1984):21.

No Author Listed. "Pratt & Whitney will Remanufacture JT8Ds." Aviation Week 121 (September 10, 1984):54.

No Author Listed. "Pratt Named GE F404 Second Source." Aviation Week 121 (October 1, 1984):20.

No Author Listed. "Pratt, Rolls Match Shutdown Rates." Aviation Week 121 (September 10, 1984):82.

No Author Listed. "SEP Developing Ceramic Parts." Aviation Week 120 (February 13, 1984):146.

No Author Listed. "Strong Gains Planned for Advanced Engine." Aviation Week 121 (November 19, 1984):52.

North, D. M. "Higher Thrust Engines Equip FP-180." Aviation Week 120 (April 2, 1984):48.

North, D. M. "Pratt & Whitney Expands Small Engines." Aviation Week 120 (May 14, 1984):56.

North, D. M. "Pratt & Whitney Studies More Remanufacturing." Aviation Week 121 (November 12, 1984):129.

North, D. M. "Tail Cracks Curb F/A-18 Performance." Aviation Week 121 (July 30, 1984):24.

Prochoroff, Alan. "TEMS (Turbine Engine Monitoring System)." Air Reservist 36 (May-June 1984):20.

Thayer, Paul. "The Grace Commission and Defense Acquisition." Defense/84 American Forces Information Service (January 1984):89.

Wanstall, Brian. "RB199 to XG-40--Stretch Stops but Technology Transfers." Interavia 39 (June 1984):557.

Wegner, A. E. "Filling the Technology Gap." Vital Speeches of the Day 50 (May 1, 1984):427.

Williams, Gareth. "On-Board Data-Monitoring Systems" Defense Review 17 9 (September 1984):55.

Williams, Michael R. "Large Turbofans to the Year 2000." Aeronautical Journal 88, No.871 (January 1984):419.

1985

Almy, D. "The Allison Strategy." Flying 112 (June 1985):62.

Bond, David. "Double Trouble? (Producing Two Engines for the F-15 and F-16 Aircraft)." Military Logistics Forum 1 (April 1985):50.

Brechner, B. "Allison-powered TurBonanza." Flying 112 (January 1985):52.

Byars, Capt Napoleon B. "Big Wind at Tullahoma (USAF's New Aero Propulsion Test Center)." Air Force Magazine 68 (January 1985):78.

Danner, Lawrence M. "What's Right with Simulator?" Flying Safety 41 (February 1985):7.

Domheim, M. A. "Hidec Program may Provide Improved Engine, Flight Profile Management." Aviation Week 122 (March 11, 1985):74.

Fink, D. E. "Pan Am Selects PW4000, V2500 Turbofans to Power New Airbus Transports." Aviation Week 122 (January 28, 1985):32.

Freeman, R. A. "Use of Computers for Non-Destructive Testing and Condition Monitoring in Aerospace." Maintenance and Management International 5 (March 1, 1985):41.

Harris, M. A. "Air Safety: the Spotlight Shifts to Pratt & Whitney." Business Week (September 9, 1985):32.

Hunt, L. "U.S. Coverup of Nazi Scientists." Bulletin of Atomic Scientists (April 1985):34.

Hunter, Louis G. "Improved Supersonic Performance for the F-16 Inlet Modified for the J79 Engine." Journal of Propulsion Power 1 (January-February 1985):50.

Kandebo, S. W. "Allison Develops Three Derivatives of 250-series Gas Turbine Engine." Aviation Week 122 (July 1, 1985):42.

Kandebo, S. W. "Allison Propfan Development Centers on Gearbox Design." Aviation Week 123 (December 23, 1985):46.

Kandebo, S. W. "General Electric Test Series Confirming Unducted Fan Concept." Aviation Week 122 (May 13, 1985):53.

Kozicharow, E. "V2500 Engine Consortium Meeting Turbofan Development Schedule." Aviation Week 122 (June 3, 1985):238.

Lenorovitz, J. M. "Sneema, General Electric Consider Joint Development of Unducted Fan." Aviation Week 122 (February 25, 1985):41.

Lenorovitz, J. M. "SNECMA Takes Share of GE Unducted Fan, Talks with Rolls on Smaller Engine." Aviation Week 1223 (May 27, 1985):20.

Mordoff, K. F. "GE Expands Facility for Unducted Fan Engine." Aviation Week 123 (July 22, 1985):153.

Mordoff, K. F. "USAF Orders F109 Production Engines from Garrett for T-46 Trainer." Aviation Week 122 (January 21, 1985):86.

No Author Listed. "1980-MPH Passenger Planes Predicted for 1985...." Air Force Times 16 (February 11, 1956):5.

No Author Listed. "Engines at the Leading Edge." Engineering 225 (December 12, 1985):736.

No Author Listed. "Munters' Dehumidification Systems Achieve Dramatic Results." Asian Defense Journal 7 (July 1985):74.

No Author Listed. "Suspect Jet Engines." Maclean's 98 (September 16, 1985):51.

No Author Listed. "Allison Develops Counterrotation Pusher Propfan Engine Concept." Aviation Week 122 (June 10, 1985):51.

No Author Listed. "Allison to use Foreign Parts for Turbines." Aviation Week 123 (October 14, 1985):77.

No Author Listed. "B-1B Engines Damaged During Flight Ground Run at Offutt." Aviation Week 123 (July 8, 1985):25.

No Author Listed. "CF6-powered A310-300 Joins Flight Test Program." Aviation Week 12 (October 7, 1985):42.

No Author Listed. "Company Plans to Upgrade Lockheed JetStar with GE CF34." Aviation Week 122 (May 27, 1985):19.

No Author Listed. "Douglas, IAE Agree to Market MD-89 with V2500 Engine." Aviation Week 122 (February 11, 1985):32.

No Author Listed. "Engine Falls Off American Airlines 727-200 During Scheduled Flight." Aviation Week 122 (April 22, 1985):34.

No Author Listed. "FAA Making Final Evaluation of Overwater Rules." Aviation Week 122 (February 18, 1985):33.

No Author Listed. "French Facility to Evaluate Fanwheel for DFM56-6." Aviation Week 122 (June 3, 1985):305.

No Author Listed. "GE CF6-80C2 Engine Nears Certification." Aviation Week 12 (June 3, 1985):304.

No Author Listed. "General Electric Develops Filmless Turbine Blade X-ray Inspection System." Aviation Week 123 (November 11, 1985):192.

No Author Listed. "General Electric, McDonnell Douglas To Flight Test Unducted Fan on MD-80." Aviation Week 122 (June 3, 1985):67.

No Author Listed. "IAI Updating F-4 Fighter with Pratt PW1120 Engine for Israeli Air Force." Aviation Week 122 (April 1, 1985):22.

No Author Listed. "IFALPA Seeks Voice in Twin-engine Extended-range Flight Standards." Aviation Week 122 (May 13, 1985):34.

No Author Listed. "Large-scale Propfan Built by Hamilton Standard Set for High-Speed Tests." Aviation Week 123 (September 2, 1985):28.

No Author Listed. "Lockheed JetStar Upgrade includes General Electric Turbofan Engines." Aviation Week 123 (September 23, 1985):117.

No Author Listed. "Lockheed to Fly Propfan on Gulfstream in 1987." Aviation Week 122 (June 10, 1985):66.

No Author Listed. "Navy Tests Begin on GE F110 Engine for F-14s." Aviation Week 122 (June 10, 1985):110.

No Author Listed. "NTSB Studies Reaction to Engine Loss in China Airlines Emergency." Aviation Week 122 (March 4, 1985):29.

No Author Listed. "PW1120 Tests Planned in F-4 Phantom." Aviation Week 123 (December 16, 1985):58.

No Author Listed. "Rolls Tests GE's CF6-80C2 in Joint High-bypass-engine Program." Aviation Week 123 (November 18, 1985):110.

No Author Listed. "USAF Redivides Pratt, G.E. Fighter Engine Buy." Aviation Week 122 (January 14, 1985):16.

No Author Listed. "Wings West Airlines Loses Prop, Makes Emergency Landing." Aviation Week 123 (September 2, 1985):34.

O'Lone, R. G. "Pratt to Offer Refanned JT8D for 100-seat 737." Aviation Week 122 (February 18, 1985):32.

Ropelewski, R. R. "USAF Negotiating Contracts for F100, F110 Improvements." Aviation Week 122 (May 20, 1985):18.

Smith, B. A. "McDonnell Douglas Nears Commitment to Fly Propfan on MD-80 Testbed." Aviation Week 122 (May 20, 1985):32.

Vertress, Juanita. "The Joint Engine Warranty Development Guide." Logistics Spectrum (October 1985):39.

Wilentz, A. "Diving from the Heavens." Time 125 (March 4, 1985):24.

Wilson, Keith. "Gas Turbines and Racer-- One Way of Reducing the Fuel Bill." Defense Review 18 8 (September 1985):1276.

Saravanamuttoo, H. I. H. "Development of Modern Turboprop Engines." Canadian Aeronautics and Space Journal 31 (June 2, 1985):131.

1986

Banks, H. "Mugged by \$10 Oil." Forbes 138 (August 11, 1986):30.

Brown, D. A. "Norwegians Expect to Develop Family of Radial Inflow Turbine Engines." Aviation Week 125 (November 10, 1986):63.

Feazel, M. "Piaggio P-180 Flight Tests Confirming High Speeds, Low Fuel Consumption." Aviation Week 125 (December 8, 1986):69.

Fink, D. E. "Cooperation's Pitfalls." Aviation Week 12 (August 25, 1986):13.

Gregory, W. G. "GE Ships Nonafterburning F404s for A-6F Development Program." Aviation Week 125 (August 4, 1986):105.

Gregory, W. H. "Pratt & Whitney Canada Developing Engine for 1990's Business Aircraft." Aviation Week 124 (March 31, 1986):97.

Hoffer, William. "Here Come the Scramjets." National Guard 40 (February 1986):14.

Kandebo, S. W. "Air Force Project Stresses Increased Engine Thrust." Aviation Week 124 (June 23, 1986):101.

Kandebo, S. W. "Allison Schedules Initial Tests of TF41 Afterburner Derivative." Aviation Week 124 (April 21, 1986):51.

Kandebo, S. W. "Grumman A-6F will Include Engine and Avionics Upgrades." Aviation Week 124 (January 20, 1986):104.

Kandebo, S. W. "IAE Examines Ultra High Bypass V2500 SuperFan Engine Concept." Aviation Week 125 (July 7, 1986):26.

Lowndes, J. C. "ATF Propulsion Tests Will Drive Operations at Arnold Facility." Aviation Week 125 (October 13, 1986):52.

Mordoff, K. F. "General Electric Flies First Unducted Fan Demonstrator." Aviation Week 125 (August 25, 1986):31.

Mordoff, K. F. "NASA/Lockheed Propfan System Completes Ground Tests." Aviation Week 125 (July 21, 1986):93.

No Author Listed. "C-130 Throttle Alignment: When is it Right?" MAC Flyer 33 (January 1986):9.

No Author Listed. "Propelling the Aerospace Plane." Mechanical Engineering 108 (June 1986):32.

No Author Listed. "American Aviation Plans Rollout of Upgraded JetStar in April." Aviation Week 124 (March 3, 1986):24.

No Author Listed. "Beech to Fly New Jet in 1987 with Williams or Garrett Engine." Aviation Week 125 (August 11, 1986):51.

No Author Listed. "British Cite JT9D-7 Pin Failure in El Al Incident." Aviation Week 124 (March 3, 1986):32.

No Author Listed. "CFM56-5 Thrust Reverser for A320 Undergoes Tests." Aviation Week 125 (October 20, 1986):68.

No Author Listed. "Decisions Near on Engine Selection for Range of International Fighters." Aviation Week 125 (August 4, 1986):107.

No Author Listed. "Definition of Indian Combat Aircraft to Follow Mid-year Selection of Engine." Aviation Week 124 (May 19, 1986):72.

No Author Listed. "Evaluations Continue on Propfan Test Assessment Systems." Aviation Week 124 (May 26 1986):89.

No Author Listed. "FAA Proposes Inspection of JT8D Spacers After Crash Investigation." Aviation Week 124 (January 6, 1986):31.

No Author Listed. "GE, Boeing Ground UDF/727 to Study Airflow Problem." Aviation Week 125 (September 22, 1986):34.

No Author Listed. "GE Engine Developments Aimed at Meeting Jet Needs." Aviation Week 125 (September 29, 1986):62.

No Author Listed. "GE, Pratt to Test ATF Demonstrator Engines." Aviation Week 125 (November 10, 1986):24.

No Author Listed. "GE Redesigns CF6 Chip Detector Seal." Aviation Week 124 (June 2, 1986):33.

No Author Listed. "GE Tests Components for UDF Engines." Aviation Week 125 (August 18, 1986):36.

No Author Listed. "General Electric Begins Ground Runs of Unducted Fan Demonstrator on 727." Aviation Week 125 (August 18, 1986):32.

No Author Listed. "General Electric Flight Tests CF6-80C2 Engine on Airbus A300B2." Aviation Week 122 (February 4, 1986):31.

No Author Listed. "General Electric/NASA GE36 Unducted Fan Continues Flight Tests." Aviation Week 125 (September 15, 1986):42.

No Author Listed. "Grumman Tests Higher Thrust Version of F-14 Tomcat." Aviation Week 125 (November 24, 1986):43.

No Author Listed. "Increased-thrust CFM56 Engines Planned." Aviation Week 125 (September 8, 1986):58.

No Author Listed. "International Gas Turbine Engines." Aviation Week 124 (March 10, 1986):188.

No Author Listed. "Irish Company Selects CFM56-3C to Power Boeing 737-400s." Aviation Week 125 (September 8, 1986):34.

No Author Listed. "Joint Venture to Build Turbofan for Midsize Corporate Jets." Aviation Week 124 (June 30, 1986):63.

No Author Listed. "Manufacturers Unveil Propfan Aircraft and Powerplant Projects." Aviation Week 124 (June 16, 1986):26.

No Author Listed. "Multinational Gas Turbine Engines." Aviation Week 124 (March 10, 1986):184.

No Author Listed. "Navy Imposes Flight Restrictions on F/A-18s." Aviation Week 125 (November 10, 1986):26.

No Author Listed. "Navy Seeks Proposals For F404 Production Through Fiscal 1992." Aviation Week 125 (September 8, 1986):39.

No Author Listed. "New Facility of Assess Engine-airframe Compatibility Prior to First Flight." Aviation Week 125 (July 7, 1986):74.

No Author Listed. "NTSB Impounds United 767 After Engine Power Loss." Aviation Week 124 (April 7, 1986):36.

No Author Listed. "NTSB Urges Review of JT8D Engines Monitoring Program." Aviation Week 124 (April 14, 1986):31.

No Author Listed. "Pratt & Whitney Canada, MTU to Produce Turbofan Engine." Aviation Week 125 (October 6, 1986):20.

No Author Listed. "Pratt Issues JT9D Guidelines Pending Fix of Surge Problem." Aviation Week 125 (December 8, 1986):21.

No Author Listed. "Pratt to Test New Rotor Seal Design for JT9D-7R4 High-pressure Turbine." Aviation Week 125 (October 13, 1986):27.

No Author Listed. "Rolls, GE Terminate Revenue Agreement over Engine Dispute." Aviation Week 125 (November 24, 1986):23.

No Author Listed. "Rolls-Royce Details Short Takeoff/Vertical Landing Powerplants." Aviation Week 124 (April 21, 1986):54.

No Author Listed. "U.S., British Cooperate on Advanced Engines." Aviation Week 124 (April 21, 1986):54.

No Author Listed. "U.S. Gas Turbine Engines." Aviation Week 124 (March 10, 1986):184.

No Author Listed. "Uncertain Fuel Costs, Aircraft Sizes Guide Rolls-Royce's Engine Plans." Aviation Week 25 (September 1, 1986):143.

North, D. M. "Higher Thrust Turbofans, New Interior Mark Beechjet Executive Aircraft." Aviation Week 125 (August 11, 1986):48.

Palmer, Capt Glenn. "It's Water Injection Season Again for the B-52G." Combat Crew 36 (April 1986):17.

Taylor, John W. R. "It Starts With the Power Plant." Air Force Magazine (January 1986):48.

1987

Banks, H. "One Thing After Another." Forbes 140 (November 16, 1987):184.

Berent, Mark. "Return to the Past to Advance: Propellers are Back." Asian Defense Journal No. 4 (April 1987):79.

Berry, F. Clifton Jr. "2000 is (Nearly) Now." Air Force Magazine 70 (February 1987):52.

Braybrook, Roy. "Preview of 37th Paris International Air Show." Armada International 11 (May-June 1987):80.

Garrison, P. "Turbine Primer." Flying 114 (November 1987):20.

Gilson, Charles. "Europe Consolidates its Turboshaft Family." Interavia 42 (March 1987):255.

Gilson, Charles. "Jumping Jet Power for the Next Century." Interavia 42 (October 1987):1033.

Ginovsky, John. "Jet Aircraft Engine Celebrates 50th Birthday." Air Force Times 47 (May 18, 1987):20.

Kandebo, S. W. "Lockheed Gears for Propfan Assessment Flights in 1987." Aviation Week (July 15, 1985):81.

Kandebo, S. W. "Large Engine Manufacturers Discount Effect of EROPS Rules on Sales." Aviation Week 127 (November 9, 1987):76.

Kandebo, S. W. "Pratt & Whitney Reorganizes its Large Engine Business." Aviation Week 127 (October 12, 1987):33.

Kandebo, S. W. "Component Deliveries Delay PW-Allison Propfan First Flight." Aviation Week 127 (November 30, 1987):28.



- Lenorovitz, J. M. "Strong Demand Prompts Increase in CF6, CFM56 Engine Production." Aviation Week 127 (November 9, 1987):35.
- Liebstone, Marvin; and Heckmann, Erhard. "Progress in US Military Aircraft Engines." Military Technical 11 (September 1987):92.
- Littlejohn, Henry L. "Today's Jet Engines--A Job Well Done." Flying Safety 43 (August 1987):13.
- Mann, P. "Canada's Suspension of CF-18 Deliveries Viewed as Repair-cost Negotiating Tactic." Aviation Week 127 (November 16, 1987):26.
- McClellan, J. M. "Dyna-Cam." Flying 114 (November 1987):68.
- Mitchell, R. "Pratt & Whitney's Stall is Turning into a Tailspin." Business Week (December 14, 1987):37.
- No Author Listed. "CFM56 Engine." Journal of Defense & Diplomacy 5 (September 1987):18.
- No Author Listed. "A-7D Crash Accents Different USAF, Navy Emergency Rules." Aviation Week 127 (November 2, 1987):31.
- No Author Listed. "Cost Pressures on Airframe Makers Prompt Rise in Risksharing Ventures." Aviation Week 127 (November 9, 1987):157.
- No Author Listed. "McDonnell Douglas Resumes Flight Tests With GE UDF Engine." Aviation Week 127 (November 2, 1987):35.
- No Author Listed. "Pratt, Allison Team for P-3 Follow-on Engine Candidate." Aviation Week 127 (December 21, 1987):32.
- No Author Listed. "Rolls-Royce and Allison Unite to Pursue U.S. Military Market." Aviation Week 127 (October 12, 1987):34.
- No Author Listed. "UHB Demonstrator Aircraft Continues Unducted Fan Tests." Aviation Week 127 (October 26, 1987):81.
- Pletschacher, Peter. "Heat Exchangers for Turboshift Engines." Interavia 42 (May 1987):503.
- Rich, Michael D.; and Dews, Edmund. "Improving Defense Acquisition: A Strategy to Meet the Challenge." Defense Management Journal (March 1987):23.
- Salvy, Robert. "New Generation of European Turboshifts." Defense Review (No volume 1987):57.
- Sweetman, B. "Scramjet: The NASP (National Aero-Space Plane) Propulsion Goal." Interavia 42 (November 1987):1207.
- Sweetman, B. "Turboshift Developments in the USA." Interavia 42 (March 1987):249.

3.6 Papers. This section consists of technical papers found at the International Gas Turbine Institute.

Adamse, Peter H. C. "Engine Condition Monitoring at KLM Royal Dutch Airlines." ASME Paper 86-GT-300, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.

Adkins, Harold T. "Noncontact Instrumentation for Turbomachinery Measurements." Paper 670944, presented at lub, Powerplant and Transportation Meeting, Pittsburgh, 1967.

Agrawal, R. K. "A Generalized Mathematical Model to Estimate Gas Turbine Starting Characteristics." ASME Paper 81-GT-202, presented at Gas Turbine Conference and Product Show, Houston, 1981.

Agrawal, R. K. "An Approach to Selecting Gas Turbine Engine Ratings for Fixed Wing Airplanes." ASME Paper 84-GT-163, presented at Gas Turbine Conference and Product Show, Amsterdam, 1984.

Akgerman, N; and Altan, T. "Application of CAD/CAM in Forging Turbine and Compressor Blades." ASME Paper 75-GT-42, presented at Gas Turbine Conference and Product Show, Houston, 1975.

Alexander, D. "F-14 Inlet Development Experience." ASME Paper 82-GT-5, presented at Gas Turbine Conference and Product Show, London, 1982.

Allen, Dale V.; and Stancliffe, A. Colin. "Emergency Power for the F-16 Aircraft." ASME Paper 83-GT-189, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.

Amer, K. B; and Sullivan, R. J. "Engine Rotor Matching for Tip Propulsion of Large Helicopters." ASME Paper 70-GT-68, presented at Gas Turbine Conference and Product Show, Brussels, 1970.

Anderson, B. A; and Trenkamp, P. J. "Interactive Cycle Analysis." presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.

Annis, C. G; Hunter, D. T; and Watkins, T. Jr. "Evaluation of Damage Tolerance Requirements Using a Probabilistic-Based Life Approach." ASME Paper 86-GT-266, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.

Armentrout, E. C; and Kicks, J. C. "Pressure Instrumentation for as Turbine Engines -- A Review of Measurement Technology." ASME Paper 78-GT-148, presented at Gas Turbine Conference and Product Show, London, 1978.

Ash, Clifford E. "The Impact of Computers on the Test Cell of Tomorrow." ASME Paper 83-GT-187, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.

Badgley, R. H. "The Potential Impact of Multiplane -- Multispeed Balancing on Gas Turbine Production." ASME Paper 74-GT-94, presented at Gas Turbine Conference and Product Show, Zurich, 1974.

- Bailey, John A.; Jordan, Franklin D.; and Kinney, Carey A. "Status of the Army Closed-Brayton-Cycle Gas Turbine Program." ASME Paper 67-GT-13, presented at Gas Turbine Conference and Product Show, Houston, 1967.
- Bairsto, N. A. "A UK Perspective on Engine Health Monitoring (EHM) Systems for Future Technology Military Engines." ASME Paper 88-GT-148, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Baker, J. R. "Laboratory Testing of Controls for Aircraft Turbine Engines." ASME Paper 75-GT-101, presented at Gas Turbine Conference and Product Show, Houston, 1975.
- Bammert, K.; and Sandstede, R. "Gas Turbine Education and Research Programs in German Universities." ASME Paper 78-GT-171, presented at Gas Turbine Conference and Product Show, London, 1978.
- Barbeau, D. E. "A Family of Small, Low Cost Turbojet Engines for Short Life Applications." ASME Paper 81-GT-205, presented at Gas Turbine Conference and Product Show, Houston, 1981.
- Barclay, B. A.; Lenox, T. G.; and Bosco, C. J. "Full Authority Digital Electronic Control--Highlights of Next Generation Propulsion Control Technology." ASME Paper 78-GT-165, presented at Gas Turbine Conference and Product Show, London, 1978.
- Barnhart, R. E. "The Contribution of Metallic and Ceramic Coatings to Gas Turbine Engines." ASME Paper 68-GT-34, presented at Gas Turbine Conference and Product Show, Washington D C, 1968.
- Bastress, E. K.; Smith, G. E.; Robertson, C. F.; and Baker, R. C. "Assessment of Emission Control Technology for Turbine-Engine Aircraft." ASME Paper 72-WA/GT-8, presented at ASME Winter Annual Meeting, New York, 1972.
- Batka, J. J.; Montgomery, J. F. III.; and Sewall, T. R. "Aircraft Usage and Effects on Engine Life." ASME Paper 83-GT-143, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Baxendale, B. V.; and Inglis, M. E. "A Computer Program For the Design of Turbomachinery Blades." ASME Paper 78-GT-36, presented at Gas Turbine Conference and Product Show, London, 1978.
- Bayati, J. E.; and Frazzini, R. M. "DIGATEC (Digital Gas Turbine Engine Control)." ASME Paper 68-GT-26, presented at Gas Turbine Conference and Product Show, Washington D C, 1968.
- Beanland, M. H. "Olympus 593 - Concorde Development Report." Paper 700291, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Beans, E. W. "A Design Study of a Fan Augmented Ramjet." ASME Paper 75-GT-97, presented at Gas Turbine Conference and Product Show, Houston, 1975.
- Beard, B. B.; and Foley, W. H. "A Design Study of a Reaction Control System for a V/STOL Fighter/Attack Aircraft." ASME Paper 83-GT-199, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.

- Beck, W. E. Jr. "Inflight Engine Performance Evaluations." ASME Paper 76-GT-70, presented at Gas Turbine and Fluids Conference, New Orleans, 1976.
- Bellin, A. I.; and Brooks, A. "Status Report: DARPA/NASA Convertible Turbofan/Turboshaft Engine Program." ASME Paper 83-GT-196, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Billman, L. S.; and Walker, B. H. "Status of Forged Turbine Rotor Technology." ASME Paper 80-GT-100, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Bland, M. J. "History of the Development of Lightweight Lift Jets." ASME Paper 70-GT-32, presented at Gas Turbine Conference and Prod Show, Brussels, 1970.
- Boedicker, Christopher A. "A Unique, Rapid Uncertainty Analysis or Turbine Engine Testing." ASME Paper 86-GT-280, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Bortkeiwicz, J. F. "Flight Evaluation of Helicopter Gas Turbine Engines." ASME Paper 70-GT-38, presented at Gas Turbine Conference and Product Show, Brussels, 1970.
- Bortz, S. A. "Metal Reinforced ceramic Composites for Turbine Vanes." ASME Paper 72-GT-51, presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Boudigues, S. "Training in the Gas Turbine Field in Belgium, in France, in Italy." ASME Paper 78-GT-169, presented at Gas Turbine Conference and Product Show, London, 1978.
- Boyd, D. I. "Development of a New Technology Small Fan Jet Engine." IGTI Paper 85-IGT-139, presented at ASME/IGTI Intl Gas Turbine Symposium, Beijing, 1985.
- Bradley, E. S.; and Little, B. H. Jr. "The Role of Flight Research Vehicles in Prop-Fan Technology Development." ASME Paper 81-GT-216, presented at Gas Turbine Conference and Product Show, Houston, 1981.
- Brennan, T. J.; Taylor, R. N.; and ,Steinert A G. "Cost Estimating Techniques for Advanced Technology Engines." Paper 700271, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Bresnahan, D. L.; and Sievers, G. K. "NASA Quiet, Clean General Aviation Turbofan (QCGAT) Program Status." ASME Paper 77-gt-77, presented at Gas Turbine Confer and Product Show, Philadelphia, 1977.
- Brines, Gerald L. "Design Approach for an Optimum Prop-Fan Propulsion System." presented at ASME/IGTI Intl Gas Turbine Symposium, Beijing, 1985.
- Broderick, J. J.; and Neesen, J. C. "Proposed Gas Turbine Procurement Standard." ASME Paper 72-GT-11, presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Brooks, A; and Fisk, William S. "Integrated Flight and Propulsion Operating Modes for Advanced Fighter Engines." ASME Paper 83-GT-194, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.

- Brown, H; and Elgin, J. A. "Aircraft Engine Control Mode Analysis." ASME Paper 84-GT-262, presented at Gas Turbine Conference and Product Show, Amsterdam, 1984.
- Bruegelmans, F. A. E. "The Supersonic Axial Inlet Component in a Compressor." ASME Paper 75-GT-26, presented at Gas Turbine Conference and Product Show, Houston, 1975.
- Bruegelmans, F. A. E. "The Mach 2 Axial Flow Compressor Stage." ASME Paper 75-GT-22, presented at Gas Turbine Conference and Product Show, Houston, 1975.
- Bruegelmans, F. A. E. "The Variable Geometry in Supersonic Compressors." ASME Paper 77-GT-35, presented at Gas Turbine Conference and Product Show, Philadelphia, 1977.
- Bucy, R. W. "Progress in the Development of Energy Efficient Engine Components." ASME Paper 82-GT-275, presented at Gas Turbine Conference and Product Show, London 1982.
- Bultzo, C. "Some Unique Gas Turbine Problems." ASME Paper 80-GT-179, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Burley, G. W.; and Suggs, J. P. "Propulsion System Integration as Applied to Business Jet Aircraft." ASME Paper 83-GT-227, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Byrd, J. A. "A New Generation of Allison Model 250 Engines." ASME Paper 84-GT-197, presented at Gas Turbine Conference and Product Show, Amsterdam 1984.
- Caddy, Michael J; and Arnold, William K. "Energy Maneuverability and Engine Performance Requirements." ASME Paper 88-GT-303, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Caffier, E.; and Kohn, A. O. "CFM56 Turbofan Engines -- General Electric/SNECMA Cooperative Engineering Development Program." ASME Paper 76-GT-78, presented at Gas Turbine and Fluids Conference, New Orleans, 1976.
- Caruvana, A.; and Horner, M. W. "High-Temperature Turbine Technology Readiness." ASME Paper 82-GT-213, presented at Gas Turbine Conference and Product Show, London 1982.
- Cavage, R. L. "Lift-Fan Characteristics Selection for 1980-85 V/STOL Carrier Onboard Delivery Aircraft." ASME Paper 75-GT-98, presented at Gas Turbine Conference and Product Show, Houston, 1975.
- Cavoli, N. C. "Commercial Engine Logistics Cost Projections - A Dynamic and Flexible Approach." ASME Paper 81-GT-114, presented at Gas Turbine Conference and Product Show, Houston, 1981.
- Chambadal, P. "Availability Balance of Gas Turbines." ASME Paper 66-GT-96, presented at Gas Turbine Conference and Product Show, Zurich, 1966.
- Chapier, J. F. "Application of High Bypass Turbofan Computer Simulation to Flight and Test Data Processing." ASME Paper 82-GT-141, presented at Gas Turbine Conference and Product Show, London, 1982.

- Chase, J. O.; and Hum, R. W. "Measuring Gaseous Emissions from an Aircraft Turbine Engine." Paper 700249, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Clarke J S; and Lardge H E. "The Performance and Reliability of Aero-Gas Turbine Combustion Chambers." ASME Paper 58-GTP-13, presented at Gas Turbine Conference and Product Show, Washington D C, 1958.
- Closs, W. J.; and Robinson, S. T. "Five Year's Experience with Aircraft Gas Turbines in Industrial Applications." ASME Paper 66-GT-105, presented at Gas Turbine Conference and Product Show, Zurich, 1966.
- Coalson, Michael S. "Status Report of the USAF's Engine Model Derivative Program." ASME Paper 82-GT-183, presented at Gas Turbine Conference and Product Show, London, 1982.
- Coalson, Michael S. "Development of the F110-GE-100 Engine." ASME Paper 84-GT-132, presented at Gas Turbine Conference and Product Show, Amsterdam, 1984.
- Coalson, Michael S. "Competitive Acquisition - What Makes Sense or Engines?" ASME Paper 88-GT-309, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Compton, W. A.; and Steward, K. P. "Dust Erosion of Compressor Materials - Experience and Prospects." ASME Paper 68-GT-55, presented at Gas Turbine Conference and Product Show, Washington D C, 1968.
- Cook, J. E. "Development Experience with Prototype Gas Turbines." ASME Paper 60-GTP-13, presented at Gas Turbine Conference and Product Show, Houston, 1960.
- Coplin, J. F. "Design Aspects of Powerplants for V/STOL Aircraft." 67-GT-7, presented at Gas Turbine Conference and Product Show, Houston, 1967.
- Corey, A.; O'Connor, J.; Sprague, R. A.; and Donachie, M. "The Potential of Titanium Castings in Gas Turbine Engines." ASME Paper 69-GT-24, presented at Gas Turbine Conference and Product Show, Cleveland, 1969.
- Cote, S. M.; Hall, C. L.; and Hathaway, R. W. "Investigation of F/A-18 Engine Throttle Usage and Parametric Sensitivities." ASME Paper 83-GT-64, presented at Gas Turbine Conference and Product show, Phoenix, 1983.
- Coty, P. J.; Lee, J. B.; Lane, A. D.; and Meyer, L. J. "A Design Review of Ceramic Components for Turbine Engines." ASME Paper 79-GT-183, presented at Gas Turbine & Solar Energy Conference, San Diego, 1979.
- Cross, W. G.; and Edwards, W. B. "Some Aspects of the Control of Multishaft Jet Engines." Paper 670139, presented at SAE Automotive Engineering Congress, Detroit, 1967.
- Crow D, E.; .Vanco, M. R.; Welna, H.; and Singer, I. D. "Results form Tests on a High Work Transonic Turbine for an Energy Efficient Engine." ASME Paper 80-GT-146, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.

- Cunningham, William H; and Boytos, Joseph F. "Navy V/STOL Engine Experience in Altitude Test Facility." ASME Paper 88-GT-317, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Curry, C. E. "Life Cycle Cost as a Propulsion System Design Consideration." ASME Paper 77-GT-99, presented at Gas Turbine Confer and Product Show, Philadelphia, 1977.
- Curry, C. E. "Engine Maintenance Cost Calculation Method." ASME Paper 81-GT-34, presented at Gas Turbine Conference and Product Show, Houston, 1981.
- Cutler, R. E.; and Spears, Esten W. Jr. "Design Problems of a Regenerative Turboprop Aircraft Engine." ASME Paper 64-GTP-13, presented at Gas Turbine Conference and Product Show, Houston, 1964.
- Cyrus, John D. "Engine Component Life Prediction Methodology for Conceptual Design Investigations." ASME Paper 86-GT-24, presented at ASME/IGTI International Gas Turbine Conference, Dusseldorf, 1986
- Cyrus, John D.; DeVillier, M. Jr.; and Kaminski, J. "Propulsion System Considerations for the Subsonic V/STOL." ASME Paper 78-GT-57, presented at Gas Turbine Conference and Product Show, London, 1978.
- Cyrus, John D; Lazarick, R. T.; and Piscopo, P. J. "Establishing Cruise-Engine Cycle Payoffs for a Supersonic V/STOL Aircraft." ASME Paper 81-GT-100, presented at Gas Turbine Conference and Product Show, Houston, 1981.
- Cyrus, John D. "Engine Component Life Prediction Methodology for Conceptual Design Investigations." ASME Paper 86-GT-24, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Darlow, M. S.; Vance, J. M.; and Mason, D. R. "Torsional Stability Analysis of a Gas-Turbine Powered Helicopter Drive System." ASME Paper 74-GT-54, presented at Gas Turbine Conference and Product Show, Zurich, 1974.
- Davies, W. J.; Hoelzer, C. A.; and Tindell, R. H. "P-14 Aircraft and Propulsion Control Integration Evaluation." ASME Paper 83-GT-234, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Davies, W. J.; and Vizzini, R. W. "Engine Control Reliability and Durability Improvement Through Accelerated Mission Environment Testing." ASME Paper 86-GT-52, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Dawson, L. G.; and Sills, T. D. "Turbofan Trends for Short Haul." ASME Paper 72-GT-86, Presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Dean, G. W. "Test Procedures for Establishing the Altitude Performance of Turbofan Engines to Validate Contractual Guarantees." ASME Paper 78-GT-42, presented at Gas Turbine Conference and Prod Show, London, 1978.
- Demott, L. R. "A7E/TF41 Engine Monitoring System (EMS)." ASME Paper 83-GT-91, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.

- Denning, R. M. "Variable Pitch Ducted Fans for STOL Transport Aircraft." ASME Paper 72-GT-61, presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Donahoe, P. G. Jr. "A Practical Approach to Gas Turbine Maintenance." ASME Paper 73-GT-87, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Doran, P. D. "Some Historical Highlights of Turbine Engine Condition Monitoring Using Flight Data." Paper 700314, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Due, H. F.; and Buchanan, E. "The Application of Low Cost Manufacturing Technology to a Turbine Gas Generator." ASME Paper 78-GT-202, presented at Gas Turbine Conference and Product Show, London, 1978.
- Dunhui, Liu. "Life Prediction for the Main Shaft of Aircraft Turbine Engine." IGTI Paper 85-IGT-136, presented at ASME/IGTI Intl Gas Turbine Symposium, Beijing, 1985.
- Duvall, D. S.; and Doyle, J. R. "Repair of Turbine Blades and Vanes." ASME Paper 73-GT-44, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Dyson, R. B.; and O'Donnell, R. F. "Consideration of Performance and Cost in Future Military Aircraft Engines." Paper 700272, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Dyste, Neal L.; and Peltier, Louis B. "Economic and Design Aspects of Gas Turbine Recuperators." Paper 660019, presented at SAE Automotive Engineering Conference, Detroit, 1966.
- Eccles, E. S.; and Shutler, A. G. "Digital Computer Control of Gas Turbine Engines." ASME Paper 70-GT-38, presented at Gas Turbine Conference and Product Show, Brussels, 1970.
- Eccles, E. S. "Digital Controls for Helicopter Engines." ASME Paper 80-GT-121, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Eccles, E. S. "Digital Control for V/STOL Powerplants." ASME Paper 80-GT-122, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Eden, J. J. "Overhaul Life Development and Early Failure Detection of Gas Turbine Engines." Paper 639B, presented at SAE Automotive Engineering Conference, Detroit, 1963.
- Ehrich, Frederic F. "Design and Developmenmt Review of the T64 Turboprop/Turboshaft Engine." ASME Paper 61-GTP-7, presented at Gas Turbine Power Conference, Washington D C, 1961.
- Endres, W. "Operating Experience with Prototype Gas Turbines." ASME Paper 73-GT-28, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Ewen, J. S.; Huber, F. W.; and Mitchell, J. P. "Investigation of the Aerodynamic Performance of Small Axial Turbines." ASME Paper 73-GT-3, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Fanuele, Frank; and Rio, Richard A. "Automated Diagnostic System or Engine Maintenance." ASME Paper 83-GT-103, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.



- Farmer, T. E. "Impact of ENSIP on Engine Demonstrator Program." ASME Paper 86-GT-274, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Fasching, W. A.; and Lennard, D. J. "Performance Improvement Features of General Electric Turbofan Engines." ASME Paper 82-GT-270, presented at Gas Turbine Conference and Product Show, London 1982.
- Faulkner, Henry B; Platt, Melvin; Klarman, Anthony F.; and Smith, Mark D. "An Emissions Database for U.S. Navy and Air Force Aircraft Engines." ASME Paper 88-GT-129, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Fawke, A. J.; and Saravanamutto, H. I. H. "Experimental Investigation of Methods for Improving the Dynamic Response of a Twin-Spool Turbojet Engine." ASME Paper 71-GT-14, presented at Gas Turbine Conference and Product Show, Houston, 1971.
- Finizie, L. T. "A Comparison of Navy and Contractor Gas Turbine Acquisition Cost." ASME Paper 83-GT-198, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Fisher, C. A. "Aircraft Turbine Power - Supporting the Prima Donna." ASME Paper 63-AHGT-56, presented at Gas Turbine Confer and Product Show, Los Angeles, 1963.
- Foster-Pegg, R. W. "Proposed Gas Turbine Procurement Standard." ASME Paper 72-GT-44, presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Foster-Pegg, R. W. "Proposed Gas Turbine Procurement Standard Maintenance Considerations." ASME Paper 72-GT-82, Presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Frignac, J. P.; and Privoznik, E. J. "The Growth and Development of the TPE331." ASME Paper 79-GT-164, presented at Gas Turbine & Solar Energy Conferen, San Diego, 1979.
- Fruchtman, Irving. "The Supersonic Turbine - A Design Cascade Study." ASME Paper 71-GT-76, presented at Gas Turbine Conference and Product Show, Houston, 1971.
- Fyfe, J. B.; Horton, R. R.; and Reed, Edward J. "EAGLE - An Interactive Engine/Airframe Life Cycle Cost Model." ASME Paper 83-GT-56, presented at Gas Turbine Conference and Product Show, London, 1982.
- Gaffin, W. O. "NASA ECI Programs: Benefits to Pratt & Whitney Engines." ASME Paper 82-GT-272, presented at Gas Turbine Conference and Product Show, London 1982.
- Galloway, T. L. "A Study of Commuter Aircraft Design." ASME Paper 77-GT-36, presented at Gas Turbine Conference and Product Show, Philadelphia, 1977.
- Galloway, W. J.; Wilby, J. F.; and True, H. C. "Noise Reduction Potential for the Existing Business Jet Fleet." ASME Paper 77-GT-76, presented at Gas Turbine Confer and Product Show, Philadelphia, 1977.

- Gangsaas, D.; Carlin, C. M.; and Munger, L. L. "Development and Evaluation of Integrated Flight/Propulsion Control Algorithms for a Tactical Fighter." ASME Paper 84-GT-282, presented at Gas Turbine Conference and Product Show, Amsterdam, 1984.
- Gardner, W. B.; Hannah, W.; and Gray, D. E. "Interim Review of the Energy Efficient Engine (E3) Program." ASME Paper 82-GT-271, presented at Gas Turbine Conference and Product Show, London 1982.
- Gertsma, L. W.; and Zigan, Steve. "Propulsion System for Research VTOL Transports." ASME Paper 73-GT-24, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Giraud, M. "Power Level Influence on Architecture of Small Helicopter Turboshaft Engines." ASME Paper 86-GT-191, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Gleason, C. C.; and Bahr, D. W. "Fuel Property Effects on Life Characteristics of Aircraft Turbine Engine Combustors." ASME Paper 80-GT-55, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Gleason, C. C.; and Marton, J. A. "Fuel Character Effects on J79 and F101 Engine Combustor Emissions." ASME Paper 80-GT-70, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Goldman, L. J. "Supersonic Turbine Design and Performance." ASME Paper 72-GT-63, presented at Gas Turbine and Fluids Conference, San Francisco, 1972.
- Grandcoing, J. "Governing and Monitoring of Gas Turbine Engine for Helicopters." ASME Paper 70-GT-37, presented at Gas Turbine Conference and Product Show, Brussels, 1970.
- Gray, Charles Jr.; and Kittredge, G. D. "Aircraft Turbine Engine Emissions and the Possibilities for Control." ASME Paper 72-WA/GT-4, presented at ASME Winter Annual Meeting, New York, 1972.
- Greco, L. "The Navy PATE Program." ASME Paper 81-GT-189, presented at Gas Turbine Conference and Product Show, Houston, 1981.
- Greco, L. "The Navy PATE Program - A Status Report." ASME Paper 83-GT-109, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Green, P. F. "Development of the Bristol Proteus Turboprop to 2000 hr Life Between Overhauls." ASME Paper 59-GTP-10, presented at Gas Turbine Conference and Product Show, Cincinnati, 1959.
- Groeneweg, John F.; and Rice, Edward J. "Aircraft Turbofan Noise." ASME Paper 83-GT-197, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Haasis, J. M. "Development of the Combustion System for the AiResearch TPE331 Turboprop Engine." ASME Paper 67-GT-25, presented at Gas Turbine Conference and Product Show, Houston, 1967.
- Hamano, Yoshiteru. "Ceramic Engine Components Under Commercial Production." ASME Paper 84-GT-165, presented at Gas Turbine Conference and Product Show, Amsterdam 1984.

- Hare, Arthur; and Malley, Harry H. "Cooling Modern Aero Engine Turbine Blades and Vanes." Paper 660053, presented at SAE Automotive Engineering Conference, Detroit, 1966.
- Heard, T. C.; and Lang, R. P. "The Concept of Availability for Gas Turbine Application Evaluation." ASME Paper 78-GT-140, presented at Gas Turbine Conference and Product Show, London, 1978.
- Hegland, F. W. "Design Analysis of the General Electric T58 Engine." ASME Paper 58-GTP-21, presented at Gas Turbine Conference and Product Show, Washington D C, 1958.
- Heiser, W. H. "Thrust Augmentation." ASME Paper 66-GT-116, presented at Gas Turbine Conference and Product Show, Zurich, 1966.
- Helfrich, W. E. "Protective Coatings for Extended Life of Aircraft Jet Engine Parts." Paper 660310, presented at SAE Aeronautic Meeting, New York, April, 1966.
- Helms, H. E. "Ceramic Applications in Turbine Engines." ASME Paper 79-GT-75, presented at Gas Turbine & Solar Energy Conferen, San Diego, 1979.
- Hemsworth, M. C.; and Zipkin, M. A. "Making Turbofan Engines More Energy Efficient." ASME Paper 78-GT-198, presented at Gas Turbine Conference and Product Show, London, 1978.
- Hiniker, T. G.; and Wilson, W. B. "Evaluating Systems to Increase Gas Turbine Capability." ASME Paper 66-GT/M-65, presented at Gas Turbine Conference and Product Show, Zurich, 1966.
- Hirschcron, R.; and Davis, R. H. "Advanced Turboprop Engines for Long Endurance Naval Patrol Aircraft." ASME Paper 82-GT-217, presented at Gas Turbine Conference and Product Show, London 1982.
- Hoelzer, C. A.; and Cea, R. A. "Cycle Flexibility: It's Impact on V/STOL Tactical Aircraft Propulsion Systems." ASME Paper 72-GT-105, Presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Holbrook, G. E.; and Rosen, G. "Evolution of the Turboprop for High Speed Air Transportation." ASME Paper 78-GT-201, presented at Gas Turbine Conference and Product Show, London, 1978.
- Holdeman, J. D. "Measurement of Exhaust Emissions from Two J58 Engines at Simulated Supersonic Cruise Flight Conditions." ASME Paper 76-GT-8, presented at Gas Turbine and Fluids Conference, New Orleans, 1976.
- Holladay, T. E.; Barlow, G. C.; and Henderson, R. E. "Development of a High-Heat-Release Combustor for the F100 Gas Turbine." ASME Paper 75-GT-86, presented at Gas Turbine Conference and Product Show, Houston, 1975.
- Horton, James H. "Environmental Factors in Engine Design for Military Applications." ASME Paper 65-GTP-1, presented at Gas Turbine Conference and Product Show, Washington D C, 1965.

- Hudson, S. M. "The Shaft Coupled Lift/Cruise Fan Propulsion System for Navy Multimission V/STOL Aircraft." ASME Paper 77-GT-112, presented at Gas Turbine Confer and Product Show, Philadelphia, 1977.
- Hughes, D. W.; and Chrispin, W. J. "Further Aspects of the UK Technology Demonstrator Programme." ASME Paper 88-GT-104, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Hurry, M. F.; and Holmes, M. "Military Engine Usage Monitoring Developments in the United Kingdom." ASME Paper 78-GT-65, presented at Gas Turbine Conference and Product Show, London, 1978.
- I'Anson, L. "High Bypass Ratio Compound Fan-Shaft Engines for Convertible Rotary Wing Aircraft." ASME Paper 69-GT-51, presented at Gas Turbine Conference and Product Show, Cleveland, 1969.
- Ingraham, R. B. "Testing Results of Comprehensive Program for High Bypass Aircraft Engines." Paper 700290, presented at SAE Air Transportation Meeting, New York, April, 1970.
- James, R. L. "The History and Use of Fire Resistant Fluids in Gas Turbines." ASME Paper 75-GT-118, presented at Gas Turbine Conference and Product Show, Houston, 1975.
- Jannuzzelli, R. J. "Cryogenic Turbine Testing." ASME Paper 82-GT-113, presented at Gas Turbine Conference and Product Show, London, 1982.
- Jay, A.; and Lewis, B. L. "Effect of Time-Dependent Flight Loads on Turbofan Engine Performance Deterioration." ASME Paper 81-GT-203, presented at Gas Turbine Conference and Product Show, Houston, 1981.
- Jin, Zhang; and Xinjian, Zhu. "Rapid Calculation of Engine Performance." IGTI Paper 85-IGT-83, presented at ASME/IGTI Intl Gas Turbine Symposium, Beijing, 1985.
- John, Derek J. "Bristol Siddeley/SNECMA Olumpus 593 Powerplant for Concorde." 67-GT-8, presented at Gas Turbine Conference and Prod Show, Houston, 1967.
- Johnson, Edward T.; and Klassen, David D. "Developments in New Gas Turbine Engine Demonstrator Programs." ASME Paper 86-GT-80, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Johnson, Henry A.; and Gegel, Gerald A. "Advanced Aerospace Metals Deformation Technology." Paper 670098, presented at SAE Automotive Engineering Congress, Detroit, 1967.
- Johnston, R. P.; and Ortiz, P. "Future Trends in Subsonic Transport Energy Efficient Turbofan Engines." ASME Paper 80-GT-177, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Jones, R. E. "Advanced Technology for Reducing Aircraft Engine Pollution." ASME Paper 73-WA/Aero2, presented at ASME Winter Annual Meeting, Detroit, 1973.
- Jones, T. V. "Gas Turbine Studies at Oxford 1969-1987" ASME Paper 88-GT-112, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.

- Jordan, D.; and Michael, G. J. "Development of Gas Turbine Performance Seeking Logic." ASME Paper 78-GT-13, presented at Gas Turbine Conference and Product Show, London, 1978.
- Kamm, K. G.; Noblat, J. M.; and Somers, J. C. "Existing Military Trainer Engine Designed to Achieve Low Maintenance Cost." ASME Paper 80-GT-108, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Kappus, Peter G.; and Kohn, A. O. "Conceptual Study of High-Performance V/STOL Fighters." ASME Paper 73-GT-66, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Katayama, K.; Sasaki, M.; and Itoh, T. "Development of Ceramic Turbine Rotors." ASME Paper 88-GT-282, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Kaufman, R. E. "History of Gas Turbines Sea Salt Problems and Solutions." ASME Paper 69-GT-31, presented at Gas Turbine Conference and Product Show, Cleveland, 1969.
- Keen, J. M. S. "Development of the Rolls-Royce RB211 Turbofan for Airline Operation." Paper 700292, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Keith, K.; Hooker, S., and Higginbottom, S. The Achievement of Excellence. The Story of Rolls-Royce (Paper). The Newcomen Society in North America, 1977.
- Kester, Jervis D. "Future Trends in Aircraft Engine Noise Research." ASME Paper 70-WA/GT-13, presented at ASME Winter Annual Meeting, New York 1970.
- Kester, Jervis D; and Peracchio, A. A. "Noise Technology Requirements for Future Aircraft Powerplants." ASME Paper 76-GT-69, presented at Gas Turbine and Fluids Conference, New Orleans, 1976.
- Kingcombe, R. C.; and Dunning, S. W. "Design Study for a Fuel Efficient Turbofan Engine." ASME Paper 80-GT-141, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Koff, Bernard L. "Designing for Durability in Fighter Engines." ASME Paper 84-GT-164, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Kofsky, M. G.; and Nusbaum, W. J. "Aerodynamic Study of a Turbine Designed for a Small Low-Cost Turbofan Engine." ASME Paper 73-GT-29, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Kohn, A. O. "Military Vertical Takeoff and Landing (VTOL) Propulsion Systems Design." ASME Paper 72-GT-73, presented at Gas Turbine and Fluids Conference, San Francisco, 1972.
- Kohzu, M.; Chinone, H.; Miyake, M.; Murashima, K.; and Ishigaki, . "Research of the XF3-1 Turbofan Engine." ASME Paper 78-GT-199, presented at Gas Turbine Conference and Product Show, London, 1978.

- Kowalski, Edward J. "Evaluation of Potential Engine Concepts for a High Altitude Long Endurance Vehicle." ASME Paper 88-GT-321, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Kramer, J. J. "Subsonic Transport Aircraft Engine Noise." ASME Paper 68-GT-61, presented at Gas Turbine Conference and Product Show, Washington D C, 1968.
- Kramer, J. J.; and Montegani, F. J. "The NASA Quiet Engine Program." ASME Paper 72-GT-96, Presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Kraska, I. R.; and Berndt, W. L. "Non Destructive Inspection Method for Jet Engine Turbine Blades." ASME Paper 73-GT-92, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Krebs, James N.; and Kappus, Peter G. "Advanced Military Transport Engines." Paper 700267, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Kronogard, S. O. "The Volvo-Turbo Experimental Gas Turbine." ASME Paper 62-GTP-8, presented at Gas Turbine Conference and Product Show, Houston 1962.
- Kuintzle, C.; and Goldwater, B. S. "Development and Application f a High Temperature Turbine Test Facility." Paper 670943, presented at Lub, Powerplant, and Transportation Meeting, Pittsburgh, 1967.
- Kutney, John T. "The Lift-Cruise Fan Propulsion System for VTOL Applications." ASME Paper 64-GTP-17, presented at Gas Turbine Conference and Product Show, Houston, 1964.
- Lancaster, O. "Objectives for a Course in Aircraft Gas Turbines." ASME Paper 74-GT-98, presented at Gas Turbine Conference and Prod Show, Zurich, 1974.
- Lawrence, W. C. "Turbine Engine Reliability - Stage II" Paper 639A, presented at SAE Automotive Engineering Conference, Detroit, 1963.
- Lazalier, G. R.; Reynolds, E. C.; and Jacox, J. O. "A Gas Path Performance Diagnostic System to Reduce J75-P-17 Engine Overhaul Costs." ASME Paper 78-GT-116, presented at Gas Turbine Conference and Prod Show, London, 1978.
- Lehman, C. L.; and Crafa, V. J. "Engine Cycle Selection for Advanced Technology Engine Studies." ASME Paper 81-GT-191, presented at Gas Turbine Conference and Product Show, Houston, 1981.
- Lemmin, Jurgen. "An Approach to an Integrated Control System for Modern Fighter Aircraft Engine." ASME Paper 86-GT-277, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Lenox, T. G. "Propulsion Control Considerations for V/STOL Aircraft." ASME Paper 72-GT-79, presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Lenox, T. G.. "Digital Control Makes a Commercial Debut on the JT9D Engine." ASME Paper 81-GT-199, presented at Gas Turbine Conference and Product Show, Houston, 1981.

- Lind, G. W.; and Protopapas, J. "Engine Cycle Selection and Propulsion System Integration for Future High Performance Fighter Aircraft." ASME Paper 77-GT-101, presented at Gas Turbine Conference and Product Show, Philadelphia, 1977.
- Lind, G. W.; and Ervolina, T. S. "Future Tactical Fighter Requirements--A Propulsion Technology Update." ASME Paper 79-GT-46, presented at Gas Turbine & Solar Energy Conference, San Diego, 1979.
- Lister, D. H.; and Wedlock, M. I. "Measurement of Emissions Variability of a Large Turbofan Aero-Engine." ASME Paper 78-GT-75, presented at Gas Turbine Conference and Product Show, London, 1978.
- Little, J. W.; and Russell, R. E. "Status Report - Subsonic Aircraft Noise Reduction." ASME Paper 76-GT-116, presented at Gas Turbine and Fluids Conference, New Orleans, 1976.
- Louthan, J. D. "Propulsion Cycle and Configuration Commonality considerations for Subsonic V/STOL Design." ASME Paper 78-GT-88, presented at Gas Turbine Conference and Product Show, London, 1978.
- Lowderback, C. J. "Industrial Application of the Pratt & Whitney Aircraft J57." Paper 639C, presented at SAE Automotive Engineering Conference, Detroit, 1963.
- Ludwig, G. R.; and Nenni, J. P. "A Rotating Stall Control System for Turbojet Engines." ASME Paper 78-GT-115, presented at Gas Turbine Conference and Product Show, London, 1978.
- Ludwig, G. R.; and Nenni, J. P. "Tests of an Improved Rotating Stall Control System on a J85 Turbojet Engine." ASME Paper 80-GT-18, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Luidens, R. W.; Stockman, N. O.; and Diedrich, J. H. "An Approach to Optimum Subsonic Inlet Design." ASME Paper 79-GT-51, presented at Gas Turbine & Solar Energy Conference, San Diego, 1979.
- Mach, K. D. "Improving Turbine Component Efficiency." ASME Paper 79-GT-176, presented at Gas Turbine & Solar Energy Conference, San Diego, 1979.
- Maltby, M. R. "Acceleration Performance of Helicopter Engines." ASME Paper 86-GT-121, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Matsuki, Masakatsu; Torisaki Tadao; and Miyazawa Kiyoto. "Recent Status on Development of the Turbofan Engine in Japan." ASME Paper 74-GT-39, presented at Gas Turbine Conference and Product Show, Zurich, 1974.
- McHugh, Kenneth L. "Lubricants for High Performance Turbine Engines." Paper 660071, presented at Automotive Engineering Congress, Detroit, 1966.
- McIntire, W. L.; and Wagner, D. A. "Next Generation Turboprop Gearboxes." ASME Paper 82-GT-236, presented at Gas Turbine Conference and Product Show, London 1982.

- McIntire, W. L. "A New Generation of T56 Turboprop Engine." ASME Paper 84-GT-210, presented at Gas Turbine Conference and Product Show, Amsterdam 1984.
- McKenzie, A. B.; and Bayne, B. T. "Performance Development of the Gem Turboshaft Engine." ASME Paper 75-GT-25, presented at Gas Turbine Conference and Product Show, Houston, 1975.
- McLean, A. F. "The Application of Ceramics to the Small Gas Turbine." ASME Paper 70-GT-105, presented at Gas Turbine Conference and Product Show, Brussels, 1970.
- McLean, H. D. "Operating Experience of General Electric Gas Turbines." ASME Paper 58-GTP-18, presented at Gas Turbine Conference and Product Show, Washington D C, 1958.
- Mellor, A. M.; Leonard, P. A.; and Henderson, R. E. "Turbopropulsion Combustion Research Needs." ASME Paper 80-GT-164, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Migdal, David. "Thrust Nozzles for Supersonic Transport Aircraft." ASME Paper 63-AHGT-73, presented at Gas Turbine Conference and Product Show, Los Angeles, 1963.
- Migdal, G.; Cea, R. A.; and McNiece, R. "Design Considerations for Supersonic V/STOL Aircraft." ASME Paper 72-GT-65, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Mihalek, E. W. "Development of a State-of-the-Art Jet Aircraft Start Unit for U.S. Navy Use - A Program Overview." ASME Paper 84-GT-264, presented at Gas Turbine Conference and Product Show, Amsterdam, 1984.
- Miller, E. H. "Performance of Jet V/STOL Tactical Aircraft Nozzles." ASME Paper 73-GT-77, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Moffatt, W. C. "Optimum Cycle Parameters for Turbofan Engines." ASME Paper 70-GT-65, presented at Gas Turbine Conference and Prod Show, Brussels, 1970.
- Montague, Hugh. "Propulsion System Screening for Survivability and effectiveness." ASME Paper 83-GT-200, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Moore, Henry B.; and Clinch, J. M. "Measurement of Jet Noise Suppression Using a Small Turbojet Engine." Paper 670157, presented at SAE Automotive Engineering Congress, Detroit, 1967.
- Mount, Robert T. "Stratified Charge Rotary Engine for General Aviation." ASME Paper 86-GT-181, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Nelson, A. W. "Exhaust Emissions Characteristics of Aircraft Gas Turbine Engines." ASME Paper 72-GT-75, presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Nichol, I. W. "The T65 and T72 Shaft Turbines." Paper 624A, presented at SAE Automotive Engineering Conference, Detroit, 1963.



- Nishio, Kenji; and Sugiyama, Nanahisa. "Real-Time Simulation of Jet Engines with Digital Computers." ASME Paper 74-GT-19, presented at Gas Turbine Conference and Product Show, Zurich, 1974.
- Noreen, A. E.; and Martin, W. T. "A Generalized Performance of Gas-Turbine Combustor Performance." ASME Paper 57-GTP-5, presented at ASME First Intl Gas Turbine Conference, Atlanta, 1957.
- Nowlan, F. S. "A Current Turbine Engine Maintenance Program and the Experience and Logic Upon Which it is Based." ASME Paper 73-GT-81, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- O'Brien, W. F. Jr.; Jones, R. R.; Moses, H. L.; and Sparks, J. F. "The VPI Gas Turbine and Turbomachinery Research Laboratory." ASME Paper 77-GT-73, presented at Gas Turbine Conference and Product Show, Philadelphia, 1977.
- Oates, G. C. "The Use of Desk-Top Computers in the Teaching of Aircraft Gas Turbines." ASME Paper 74-GT-115, presented at Gas Turbine Conference and Product Show, Zurich, 1974.
- Ogg, Jon S. "Durability and Damage Tolerance Assessment of the TF-34-100 Engine." ASME Paper 86-GT-38, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Overend, Walter J. "Jet Engines in Airline Service." ASME Paper 62-GTP-7, presented at Gas Turbine Conference and Product Show, Houston 1962.
- Pampreen, R. C. "Small Turbomachinery Compressor and Fan Aerodynamics." ASME Paper 73-GT-6, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Parkes, R. J. "Design Aspects of Recent Developments in Rolls-Royce RB211-524 Powerplants." ASME Paper 88-GT-301, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Patt, R. F.; and Reemsnyder, D. C. "CF6 Fan Performance Improvement." ASME Paper 80-GT-178, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Paynter, G. C. "CFD Technology for Propulsion Installation Design - Forecast for the 80's." ASME Paper 82-GT-21, presented at Gas Turbine Conference and Product Show, London, 1982.
- Paynter, G. C.; Forester, C. K.; and Tjonneland, E. "CFD for Engine-Airframe Integration." ASME Paper 86-GT-125, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Peacock, A. T.; and Christensen, L. D. "Compatibility of Gelled and Emulsified Fuels with Jet Transport Aircraft." Paper 700251, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Peterson, G. P. "Advanced Composites -- A State-of-the-Art Assessment." ASME Paper 70-GT-120, presented at Gas Turbine Conference and Product Show, Brussels, 1970.
- Polley, John A.; Adibhatla, Shrider; and Hoffman, Paul J. "Multivariable Turbofan Engine control for Full Flight Envelope Operation." ASME Paper 88-GT-6, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.

- Price, J. L.; McKenny, L. D.; Gershon, I. J.; and Meece, C. E. Jr. "Time-Phased Development Methodology--The Key for Reliable Engines in Future Military Aircraft Weapons Systems." ASME Paper 78-GT-167, presented at Gas Turbine Conference and Product Show, London, 1978.
- Proppen, M.; Vogel, H.; and Aksoy, S. "Thermomechanical Advances on Small Gas Turbine Engines: Present Capabilities and Future Direction in Gas Generator Designs." ASME Paper 88-GT-213, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Prue, D. A.; and Soule, T. L. "Advanced Control System Considerations for Small Shaft-Type Aircraft Gas Turbines." ASME Paper 70-GT-132, presented at Gas Turbine Conference and Product Show, Brussels, 1970.
- Quan, D. "The Design and Development of the ORENDA OT-4 Gas Turbine." ASME Paper 66-GT/M-23, presented at Gas Turbine Conference and Product Show, Zurich, 1966.
- Quigg, R. J.; and Collins, H. E. "Superalloy Development for Aircraft Gas Turbines." ASME Paper 69-GT-7, presented at Gas Turbine Conference and Product Show, Cleveland, 1969.
- Rapp, G. C.; and Rosenthal, S. H. "Problems and Solutions for Sand Environment Operation of Helicopter Gas Turbines." ASME Paper 68-GT-37, presented at Gas Turbine Conference and Product Show, Washington D C, 1968.
- Rashev, R. S. "Turborotor Hybrid Gas Turbine Two-Phase Engine." ASME Paper 84-GT-231, presented at Gas Turbine Conference and Product Show, Amsterdam, 1984.
- Rauh, G.; and Anders, W. "Aircraft/Engine Integration for an Advanced Fighter Considering Mission Specifics." ASME Paper 86-GT-295, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Reed, Edward J. "Eagle/DTA: A Life Cycle Cost Model for Damage Tolerance Assessment." ASME Paper 83-GT-76, Presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Reed, Edward J. "Life Cycle Cost Methodology for Preliminary Design Evaluation." ASME Paper 86-GT-37, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Richard, C. C.; and Latham, R. F. "The Use of Gas Turbine Laboratories in Teaching Engineering and Non-Engineering Students." ASME Paper 78-GT-180, presented at Gas Turbine Conference and Product Show, London, 1978.
- Ridley, D. E.; and Norton, J. A. "Controllable Pitch Propellers with Gas Turbine Prime Movers." ASME Paper 73-GT-74, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Riley, D. R. "Design Considerations for Nuclear-Aircraft Gas Turbine Engines." ASME Paper 59-GTP-13, presented at Gas Turbine Conference and Product Show, Cincinnati, 1959.
- Rio, Richard A. "Improved Jet Engine Maintenance Through Automated Vibration Diagnostic Systems." ASME Paper 81-GT-62, presented at Gas Turbine Conference and Product Show, Houston, 1981.

- Rizk, W. "Some Large Gas Turbine Developments in Great Britain -- Past, Present, and Future." ASME Paper 66-GT-108, presented at Gas Turbine Conference and Product Show, Zurich, 1966.
- Robb, J. D. "Lightening Protection Approached for Gas Turbine Controls." ASME Paper 71-GT-29, presented at Gas Turbine Conference and Product Show, Houston, 1971.
- Robbins, O. G. "V/STOL Aircraft Gas Turbine Requirements." ASME Paper 67-GT-48, presented at Gas Turbine Conference and Product Show, Houston, 1967.
- Roberts, P. B.; Shekleton, J. R.; White, D. J.; and Butze, H. F. "Advanced Low NO<sub>x</sub> Combustors for Supersonic High-Altitude Aircraft Gas Turbines." ASME Paper 76-GT-12, presented at Gas Turbine and Fluids Conference, New Orleans, 1976.
- Roelke, R. J.; and Zigan, Steve. "Design Studies of Lift Fan Engines Suitable for Use in Civilian VTOL Aircraft." ASME Paper 72-GT-65, presented at Gas Turbine and Fluids Conference, San Francisco, 1972.
- Rohm, B. N. "Joint Technology Demonstrator Engine -- The Initial Test." ASME Paper 80-GT-47, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Saintsbury, J. A.; and Sampath, P. "A Review of Small Gas Turbine Combustion System Development." ASME Paper 79-GT-136, presented at Gas Turbine & Solar Energy Conference, San Diego, 1979.
- Sallee, G. P. "Design Requirements and Objectives for Commercial Aircraft Propulsion Systems." ASME Paper 69-GT-57, presented at Gas Turbine Conference and Product Show, Cleveland, 1969.
- Sallee, G. P. "Standard Smoke Measurement Method." Paper 700250, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Saylor, J. M.; and Hancock, J. P. "C-5 Engine Inlet Development." ASME Paper 69-GT-52, presented at Gas Turbine Conference and Product Show, Cleveland, 1969.
- Schmidt, Marvin F. "Propeller Design Point Calculation Method for Comparing Turbofan/Propfan Engine Performance." IGTI Paper 85-IGT-150, presented at ASME/IGTI Intl Gas Turbine Symposium, Beijing, 1985.
- Schmoch, O. "Experience with Large Gas Turbine Combustion Chambers." ASME Paper 82-GT-57, presented at Gas Turbine Conference and Product Show, London, 1982.
- Schneider, H. "Computer Systems - An Aid to the Development of Gas Turbine Engines." ASME Paper 83-GT-110, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Scholz, N. K. H. "Technological Trend of Aircraft Gas Turbines and Its Effect on the Development for Ship Propulsion Plants." ASME Paper 70-GT-75, presented at Gas Turbine Conference and Product Show, Brussels, 1970.

- Schuetz, A. J. "The Influence of Engine Characteristics on Patrol Aircraft Life Cycle Cost Optimization." ASME Paper 82-GT-256, presented at Gas Turbine Conference and Product Show, London 1982.
- Schulz, W. J.; Mangiapane, J. A.; and Stargardt, H. "Development of Borsic-Aluminum Composite Fan Blades for Supersonic Turbofan Engines." ASME Paper 71-GT-90, presented at Gas Turbine Conference and Product Show, Houston, 1971.
- Scotto, M. J.; and Eimeir, M. E. "High-Speed Noncontacting Instrumentation for Jet Engine Testing." ASME Paper 80-GT-18, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Seely, George H.; and Stibich, Marvin A. "Turbine Engine Technology and Cost." Paper 700270, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Seippel, C. "The Evolution of Compressor and Turbine Bladings in as Turbine Design." ASME Paper 66-GT-106, presented at Gas Turbine Conference and Product Show, Zurich, 1966.
- Sellers, J. F.; and Szuch, J. R. "Control of Turbofan Lift Engines for VTOL Aircraft." ASME Paper 73-GT-20, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Sells, B. E. "A Transport Aft-Turbofan." ASME Paper 59-GTP-20, presented at Gas Turbine Conference and Product Show, Cincinnati, 1959.
- Sens, William H.; and Meyer, Robert M. "Military/Commercial Aircraft Propulsion Relationships." Paper 700268, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Sens, William H. "Advanced Turbofan Engines for Low Fuel Consumption." ASME Paper 78-GT-192, presented at Gas Turbine Conference and Product Show, London, 1978.
- Serovy, G. K. "Recent Progress in Aerodynamic Design of Axial-Flow Compressors in the United States." ASME Paper 66-GT-95, presented at Gas Turbine Conference and Product Show, Zurich, 1966.
- Shapiro, S. R.; and Caddy, Michael J. "NEPCOMP -- The Navy Engine Performance Program." ASME Paper 74-GT-83, presented at Gas Turbine Conference and Product Show, Zurich, 1974.
- Sheffler, Keith D.; and Gupta, Dinesh K. "Current Status and Future Trends in Turbine Application of Thermal Barrier Coatings." ASME Paper 88-GT-286, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Shepherd, D. G. "Gas Turbine Technology and the Engineering Curriculum -- A Viewpoint." ASME Paper 74-GT-113, presented at Gas Turbine Conference and Product Show, Zurich, 1974.
- Shoemaker, W. W. "Life Cycle Cost Before, During, and After the Design of Aircraft Propulsion Systems." ASME Paper 81-GT-111, presented at Gas Turbine Conference and Product Show, Houston, 1981.
- Singleton, R. E. "Aeropropulsion Research for the U.S. Army." ASME Paper 82-GT-203, presented at Gas Turbine Conference and Product Show, London 1982.

- Smith, E. L. "Development of the T74 (PT6) Turboprop/Turboshaft Engine." Paper 624B, presented at SAE Automotive Engineering Conference, Detroit, 1963.
- Sokolowski, Daniel E.; and Ensign, Robert C. "Toward Improved Durability in Advanced Combustors and Turbines-Progress in the prediction of Thermomechanical Loads." ASME Paper 86-GT-172, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Spooner, S. H. "The V/STOL Aircraft Environment." ASME Paper 68-GT-40, presented at Gas Turbine Conference and Product Show, Washington D C, 1968.
- Sprague, R. A. "Materials and Process Impact on Aircraft Engine Designs of the 1990's." ASME Paper 82-GT-278, presented at Gas Turbine Conference and Product Show, London 1982.
- Sridhara, S.; Chidananda, M. S.; and Paranipe, P. A. "Jet Curtain Flameholder for Aircraft Afterburners." ASME Paper 78-GT-88, presented at Gas Turbine Conference and Product Show, London, 1978.
- Stalder, J. P. "The Altitude Control System as an Integral Part of the V/STOL Propulsion System Installation." ASME Paper 70-GT-40, presented at Gas Turbine Conference and Product Show, Brussels, 1970.
- Steffen, F. W.; Satmary, E. A.; Vanco, M. R.; and Nosek, S. M. "A Turbojet Simulator for Mach Numbers up to 2.0." ASME Paper 72-GT-89, Presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Stewart, J. D. "CT7-5A/77E Turboprop Engine for Commuter Airline Service." ASME Paper 84-GT-257, presented at Gas Turbine Conference and Product Show, Amsterdam, 1984.
- Stohlgren, L. M. "The GTCP331, a 600hp Auxiliary Power Unit Program." ASME Paper 83-GT-188, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Stohlgren, L. M.; and Werner, Lutz D. "The GTCP36-300, A Gas Turbine Auxiliary Power Unit for Advanced Technology Transport Aircraft." ASME Paper 86-GT-285, presented at ASME/IGTI Gas Turbine Conference, Dusseldorf, 1986.
- Sutliff, Dave. "V/STOL Airframe/Propulsion Integration Problem Areas." ASME Paper 73-GT-76, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Suzuki, K.; Ishii, A.; Horiuchi, S.; Saito, T.; Matsuki, Masakatsu.; and Torisaki, Tadao. "Design and Development of a High-Pressure Combustor for Aero-Gas-Turbines." ASME Paper 77-GT-96, presented at Gas Turbine Confer and Product Show, Philadelphia, 1977.
- Tamaki, T.; and Nagano, S. "Experimental Evaluation of an Axial-Flow Transonic Compressor." ASME Paper 76-GT-34, presented at Gas Turbine and Fluids Conference, New Orleans, 1976.
- Tape, R. F.; Hartill, W. R.; Curry, Lt S.; and Jones, T. J. "Vectoring Exhaust Systems for STOL Tactical Aircraft." ASME Paper 83-GT-212, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.

- Tauber, T. "Full-Flow Debris Monitoring in Gas Turbine Engines." ASME Paper 81-GT-60, presented at Gas Turbine Conference and Prod Show, Houston, 1981.
- Taylor, H. N. "Maintenance Trends for New Air Transport Powerplants." Paper 700316, presented at SAE Air Transportation Meeting, New York, April, 1970.
- Taylor, M. W. "Overhaul and Operating Experiences JT-3 and JT-4 et Engines." ASME Paper 62-GTP-15, presented at Gas Turbine Conference and Product Show, Houston 1962.
- Thomas, W. W. "Turbotip Lift Fan Design." ASME Paper 72-GT-111, Presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Toriz, F. C.; Thakker, A. B.; and Gupta, Dinesh K. "Thermal Barrier Coatings for Jet Engines." ASME Paper 88-GT-279, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Tree, D. J.; Alderson, R. G.; Harvey, J. W.; and Mason, D. R. "Thee Dynamic Stability of Wing-Mounted Engine Installations for Turboprop-Powered Aircraft." ASME Paper 74-GT-52, presented at Gas Turbine Conference and Product Show, Zurich, 1974.
- Vanfossen, G. J. "The Feasibility of Water Injection into the Turbine Coolant to Permit Gas Turbine Contingency Power for Helicopter Application." ASME Paper 83-GT-66, presented at Gas Turbine Conference and Product Show, Phoenix, 1983.
- Veno, Lester B. "An Examination of the Propulsion System for the Compound Helicopter." ASME Paper 67-GT-18, presented at Gas Turbine Conference and Product Show, Houston, 1967.
- Verkamp, F. J.; Verdouw, A. J.; and Tomlinson, J. G. "Impact of Emission Regulations on Future Gas Turbine Engine Combustors." AIAA Paper 73-1277, presented at AIAA/SAE 9th Propulsion Conference, Las Vegas, 1973.
- Vi, G. J.; Heimbold, R. L.; Miller, R. J.; and Rachovitsky, E. "Flight and Propulsion Control Integration for Selected In-Flight Thrust Vectoring Modes." ASME Paper 78-GT-79, presented at Gas Turbine Conference and Product Show, London, 1978.
- Viall, W. S. "The Engine Inlet on the 747." ASME Paper 69-GT-41, presented at Gas Turbine Conference and Product Show, Cleveland, 1969.
- Vizzini, R. W. "Integrated Flight/Propulsion Control System Considerations for Future Aircraft Application." ASME Paper 84-GT-192, presented at Gas Turbine Conference and Product Show, Amsterdam 1984.
- Weber, H. A.; and Karemaa, Aadu. "Propulsion System and Airframe Integration for Jet-Lift V/STOL Airplanes." ASME Paper 72-GT-106, Presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Webster, C. N. "Lift Engine Bleed Flow Management for a V/STOL Fighter Reaction Control System." ASME Paper 73-GT-70, presentc.J at Gas Turbine Conference and Product Show, Washington D C, 1973.

- Weidhuner, D. D. "Military Potential of the Small Gas Turbine." ASME Paper 66-GT-91, presented at Gas Turbine Conference and Prod Show, Zurich, 1966.
- Weinberg, M. S. "A Multi-Variable Control for a Turbofan Engine Operating at Sea Level Static." ASME Paper 76-GT-71, presented at Gas Turbine and Fluids Conference, New Orleans, 1976.
- Weinstein, Martin. "Remanufacture of Jet Engine Compressor Components." ASME Paper 73-GT-43, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Whalley, K. F. "American Airlines' Experience with Turbojet-Turbofan Engines." ASME Paper 62-GTP-16, presented at Gas Turbine Conference and Product Show, Houston, 1962.
- White, A. H.; and Wills, D. F. "Advanced Control Program for Army Gas Turbine Engines." ASME Paper 73-GT-64, presented at Gas Turbine Conference and Product Show, Washington D C, 1973.
- Wilson, N. J. "Developing the Rolls-Royce Tay." ASME Paper 88-GT-302, presented at Gas Turbine and Aeroengine Congress, Amsterdam, 1988.
- Woodward, J. A. "Status Report on the Olympus 593 for Concorde." 68-GT-64, presented at Gas Turbine Conference and Product Show, Washington D C, 1968.
- Wrong, C. B. "An Introduction to the JT15D Engine." ASME Paper 69-GT-119, presented at Gas Turbine Conference and Product Show, Cleveland, 1969.
- Xhau, Qi Shou. "Calculation of Windmilling Characteristics of Turbojet Engines." ASME Paper 80-GT-50, presented at Gas Turbine Conference and Product Show, New Orleans, 1980.
- Yamanaka, Kuniyasu. "Experimental Study on High Loading Combustor for Lift Jet Engine." ASME Paper 72-GT-99, Presented at Gas Turbine and Fluids Conference, San Fransisco, 1972.
- Yank, M. L. "Application of Scaling in Afterburner Test and Development." ASME Paper 81-GT-194, presented at Gas Turbine Conference and Product Show, Houston, 1981.
- Yoshimoto, K.; Hirata, Y.; and Chiba, M. "Salt in Sea Atmosphere and its Removal for Gas Turbines." ASME Paper 76-GT-58, presented at Gas Turbine and Fluids Conference, New Orleans, 1976.
- Zabinsky, J. M.; and Carter, R. N. "Integrated Propulsion Systems for V/STOL Transports." ASME Paper 74-GT-118, presented at Gas Turbine Conference and Product Show, Zurich, 1974.
- Ziebarth, H. K. "Could Today's Gas Turbine Technology Benefit from New Cycle Concepts?" ASME Paper 66-GT-85, presented at Gas Turbine Conference and Product Show, Zurich, 1966.
- Zipkin, M. A. "The PW1120 - A High Performance, Low Risk F100 Derivative." ASME Paper 84-GT-230, presented at Gas Turbine Conference and Product Show, Amsterdam, 1984.

#### 4. OUTLINE FOR PROPOSED HISTORY OF THE AIRCRAFT GAS TURBINE IN THE UNITED STATES

##### 4.1 Thesis.

My research model, or thesis, for the development of The History of the Aircraft Gas Turbine Engine in the United States, will be that the historical development of the aircraft gas turbine engine has been characterized by a pattern of technological response to outside stimuli controlled by specific limitations upon that response. This historical model can be compared to the mathematical equation  $Y(i) = a(i)(X)$ , where

$Y(i)$  = Dependent Response Variable/Factors

$a(i)$  = Factors relating response to independent variables

$X$  =  $X_1$  or  $X_2$ , Independent Variables/Factors (threats or opportunities)

Where  $i$  = many possible multipliers and/or responses to  $X$ .

In the historical development of the AGTE, the independent input variables/factors have been either  $X_1$ ) hostile threats to society, or  $X_2$ ) economic opportunities.

The response [ $Y$ ] or responses [ $Y(i)$ ] to these independent input variables are the many elements of the programs and methodologies that lead to specific AGTE developments, the whole R&D process representing specific responses to the input independent variables ( $X$ ) (threat/opportunity).

The factors [ $a(i)$ ] govern the response to the perceived " $X$ ". The range of possible "magnitudes" of the factors depend upon boundary limitations/factors, i.e., those considerations that represent limitations or opportunities to address the independent input variables ( $X$ ). Among boundary limitations/factors are A) materials, B) costs, C) theoretical understanding, D) facilities, E) leadership (or national will), and F) knowledge (or analytical ability).

The range of these boundary limitations/factors can and have been influenced by specific multipliers such as: A) national will in time of crisis, and B) the advent of technological impactors such as computers and specific materials technology advances.

This research model will be applied to my historical investigation of the development of AGTE technology. I will look at each engine, trying to identify the threat or opportunity which led to its consideration, and the boundary limitations/factors which influenced the response. The description of each engine will be presented in this light.

Here are the AGTEs that resulted from the responses of the turbine engine technology community to the independent variables outlined above. The underlined topics represent historical subject or chapter headings. Following some of the topic groupings are potential research questions to be investigated during my research.



## 4.2 Proposed Chapters.

4.2.1 Proposed Chapter One. The Pioneers of the AGTE: Dreamers, Inventors, and Engineers. Hans von Ohain, Sir Frank Whittle, Nathan Price, Jendrassik, the Russians.

4.2.2 Proposed Chapter Two. The Early Years of the AGTE in the United States: General Electric and the British.

- (a) GE I-A -- General Electric version of Whittle's engine.
- (b) J31 (GE I-16) General Electric -- first American turbojet.
- (c) J33 (GE I-40) -- General Electric centrifugal compressor AGTE--first American mass-production (by Allison) AGTE.

4.2.3 Proposed Chapter Three. Westinghouse Tries and Leaves.

- (a) J30 Westinghouse AGTE, first "all-American" turbojet, first Navy operational engine, and first operational engine with axial compressor.
- (b) J46 Westinghouse engine, first Navy operational AGTE with an afterburner.
- (c) J54 Westinghouse, only military-qualified engine developed as a private venture.

4.2.4 Proposed Chapter Four. General Electric Applies New Ideas, American Technology.

- (a) J35 (TG-180) first General Electric axial compressor AGTE.
- (b) J47 GE AGTE with turbine cooling, most-produced AGTE in history.

Research Question: Was the J47 an outgrowth of the J35, with turbine cooling?

4.2.5 Proposed Chapter Five. Pratt & Whitney Acknowledges the Existence of the AGTE.

- (a) J42 (JT6B) First Pratt & Whitney operational AGTE-manufactured under license from RR (Derwent).
- (b) J48 (JT7) P&W-manufactured under license from RR (Tay).
- (c) J52 Pratt & Whitney, basis for the highly successful JT8D engine.

Research Question: If this engine was dual-spool, then this gets the credit for the J57 listed below, and is the beginning of the modern era of P&W compressors?

#### 4.2.6 Proposed Chapter Six. Multiple Spools.

- (a) J57 Pratt & Whitney twin-spool concept, and titanium. The beginning of the modern era for P&W, represents P&W development of the ability to build and operate very high pressure ratio compressors in AGTE.
- (b) TF33 first Pratt & Whitney turbofan, forerunner of JT3D commercial AGTE, J57 engine with a fan attached.

Research Question: If the J57 was the first to use titanium, this is a very important milestone.

#### 4.2.7 Proposed Chapter Seven. AGTEs Power Helicopters.

- (a) T53 turboshaft for helicopters, by Textron-Lycoming, developed to be "universal application" AGTE.
- (b) T55 Textron-Lycoming helicopter engine.
- (c) T58 General Electric turboshaft engine. Response to Lycoming, and a big success.
- (d) T64 General Electric turboshaft engine.
- (e) T700 General Electric turboshaft engine, used in Blackhawk, Apache, and Seahawk helos.

4.2.8 Proposed Chapter Eight. AGTEs Power Turboprops. The T56, an Allison turboprop AGTE, was an extensively used military and commercial turboprop. This possibly could be considered a very practical and commercial response to a need, using known technology in a conservative way.

#### 4.2.9 Proposed Chapter Nine. Fascinating Diversions -- Possibly a Key to the Future.

- (a) J58 Pratt & Whitney, first mach-3 turbojet, high-bypass cycle, use of titanium.
- (b) J93 General Electric's B-70 supersonic cruise engine.

Research Questions: What were the technological roots of the J58? Could the roots be the J57?

#### 4.2.10 Proposed Chapter Ten. Variable Compressor Vanes.

- (a) J79 General Electric variable-stator AGTE, roots of the modern GE high pressure ratio compressor technology.
- (b) TF34 General Electric, first operational Navy high bypass turbofan engine.

Research Question: Is the TF34 a J79 with a fan attached?

#### 4.2.11 Proposed Chapter Eleven. Ducted Augmented Turbofan Engines.

- (a) TF30 Pratt & Whitney, first operational afterburning turbofan engine. It does represent the American prototype and initially successful engine of the ducted fan, afterburning, interceptor/high performance engine concept which is used in the F-14, and F-111 aircraft [P&W F100, GE F110, GE F101(?)]
- (b) F100 Pratt & Whitney, high performance ducted augmented turbofan.
- (c) F110 General Electric high performance ducted augmented turbofan.
- (d) F404 General Electric high performance ducted augmented turbofan for F-18.

Research Questions: Where does the core of the TF30 engine come from? Was this the first result of the building-block concept of Cliff Simpson, or does it have a developmental relationship to the J52 and J57?

#### 4.2.12 Proposed Chapter Twelve. Very High Bypass Turbofan Engines.

- (a) TF39 General Electric high-bypass turbofan, designed for the C-5A.
- (b) CF6 and other GE high bypass civilian engines that resulted from the TF39.
- (c) JT9D P&W civilian engine, could be said to be a competitive response to GE.

Research Questions: Did the TF39 utilize the building-block concept developed by Cliff Simpson? Does the TF39 represent the beginning of very-high bypass turbofan engine technology?

#### 4.2.13 Proposed Chapter Thirteen. Life Engines; Vertical Take-off and Landing AGTEs. F402: Rolls-Royce Pegasus engine for the Harrier.

#### 4.2.14 Proposed Chapter Fourteen. Special AGTE Applications.

- (a) T76 (TPE331) Garrett AGTE designed from APU, no government funds used in design and development.
- (b) F107 Williams International cruise missile AGTE.
- (c) J402 Teledyne CAE, first operational engine developed exclusively for an unmanned vehicle.

#### 4.3 List of Boundary Condition Factors to be Explored.

Here are the boundary condition factors which determined the factors relating the independent variables to the response. These factors impacted the entire spectrum of AGTE technology development. These factors will also be investigated throughout the period of my research.

- (a) The role of computers in AGTE development.
- (b) The question of competition in AGTE development.
- (c) Cost and Cost Effectiveness in AGTE development.
- (d) Technology transfer and AGTE development.
- (e) The role of government in AGTE development.
  - govt. as sponsors of the technology
  - role of the SAB and von Karman
- (f) The role of universities in AGTE development.
- (g) The role of NACA in AGTE development.
- (h) The role NASA in AGTE development.
- (i) The role of the development of fundamental and applied science in AGTE development.
  - universities
  - companies/think tanks
  - government labs
- (j) Environmental constraints on AGTE development.

#### 4.4 Some of the Important People in the History of the AGTE.

I would like to include some individuals whom I feel contributed in significant ways to the development of the AGTE.

Hans von Ohain  
 Frank Whittle  
 Von Karman  
 Anselm Franz  
 Mel Hartmann (NASA Lewis)  
 Gerhard Neumann  
 William Brown (P&W)  
 Donald Weidhuner  
 Leroy Smith (GE)

#### 4.5 Technical Approach.

The UES principal investigator proposes a Task-order approach to research and writing of the history. Specific research topics would be identified in accordance with the proposed outline of work, and each research topic would be approached in accordance with a specific research methodology. Each task would include between one and four research topics, following the schedule set forth in the proposed outline.

The research topics would be developed as a historical research element or technical element of the task. Each historical research element would follow the following procedure:

##### 4.5.1 Step 1. References research:

- (a) Research appropriate articles in AGTE Bibliography.
- (b) Gather together appropriate books for research, generate a list of secondary sources.

#### 4.5.2 Step 2. Preliminary research:

- (a) Establish timeframe for development of research chronology.
- (b) Determine interview approach to oral history sources.
- (c) First meeting with appropriate consultants.
- (d) Revise chronology and methodology if necessary.
- (e) Set up on-site visit schedule.

#### 4.5.3 Step 3. On-site research.

- (a) Interviews with oral history sources, generate interview outlines.
- (b) Conduct on-site research, generate initial chapter outline.

#### 4.5.4 Step 4. First writing phase.

- (a) Revise initial chapter outline with any new material.
- (b) Generate first chapter draft.
- (c) Second meeting with consultants, if necessary.

The steps necessary to complete any technical elements of the Task will be identified in each Task as required.

#### 4.6 Proposed Task Schedule for History of the Aircraft Gas Turbine in the United States.

4.6.1 Task I. Pioneers of the AGTE: Part 1. Consists of four elements; three historical research element and one technical research element.

##### Phase One:

- (a) Whittle historical research element.
- (b) Von Ohain historical research element.
- (c) American historical research element.
- (d) Technical element (preparation of a multi-media presentation of the history of the AGTE).

4.6.2 Task II. Pioneers of the AGTE: Part 2. Consists of two historical research elements and one technical element:

- (a) von Ohain historical research element.
- (b) American historical research element.
- (c) AGTE History Video Edit technical element.

4.6.3 Task III. The Early Years of the AGTE in America. Consists of three historical research elements:

- (a) GE 1-A historical research element.
- (b) GE J31 (GE I-16) historical research element.
- (c) GE J33 (GE I-40) historical research element.

4.6.4 Task IV. Westinghouse Tries and Leaves. Consists of three historical research elements:

- (a) Westinghouse J30 historical research element.
- (b) Westinghouse J46 historical research element.
- (c) Westinghouse J54 historical research element.

4.6.5 Task V. This is a two phased task. The first phase would consist of the chapter entitled General Electric Applies New Ideas, American Technology. This phase would consist of two historical research elements.

Phase One

- (a) GE J35 (TG-180) historical research element.
- (b) GE J47 historical research element.

The second phase would consist of the chapter entitled Pratt & Whitney Acknowledges the Existence of the AGTE. This phase would consist of three historical research elements.

Phase Two

- (a) P&W J42 (JT6B) historical research element.
- (b) P&W J48 (JT7) historical research element.
- (c) P&W J52 historical research element.